

8. When the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg, 802.11g/n OFDM SAR is not required, per KDB248227 D01 v02r02 section 5.2.2 b).
9. For devices that operate in both U-NII bands using the same transmitter and antenna(s), SAR test reduction is determined according to the following, per KDB248227 D01 v02r02 section 5.3.1:
 - a) When the same maximum output power is specified for both bands, begin SAR measurement in U-NII-2A band by applying the OFDM SAR requirements. If the highest reported SAR for a test configuration is ≤ 1.2 W/kg, SAR is not required for U-NII-1 band for that configuration (802.11 mode and exposure condition); otherwise, each band is tested independently for SAR.
 - b) When different maximum output power is specified for the bands, begin SAR measurement in the band with higher specified maximum output power. The highest reported SAR for the tested configuration is adjusted by the ratio of lower to higher specified maximum output power for the two bands. When the adjusted SAR is ≤ 1.2 W/kg, SAR is not required for the band with lower maximum output power in that test configuration; otherwise, each band is tested independently for SAR.
10. When multiple transmission modes (802.11a/g/n/ac) have the same specified maximum output power, largest channel bandwidth, lowest order modulation and lowest data rate, the lowest order 802.11 mode is selected; i.e., 802.11a is chosen over 802.11n then 802.11ac or 802.11g is chosen over 802.11n, per KDB248227 D01 v02r02 section 5.3.2.
11. When the highest reported SAR for the initial test configuration (when applicable, include subsequent highest output channels), according to the initial test position or fixed exposure position requirements, is adjusted by the ratio of the subsequent test configuration to initial test configuration specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg, SAR is not required for that subsequent test configuration, per KDB248227 D01 v02r02 section 5.3.4 b).
12. When the original highest measured SAR is ≥ 0.80 W/kg, only one repeated measurement is required, if the measured SAR value of the initial repeated measurement is < 1.45 W/kg with $\leq 20\%$ variation, per KDB 865664 D01 v01r04 section 2.8.1.

■ Body

GPRS											
Band	Mode	CH.	Freq. (MHz)	Body Position	Dist. (mm)	Cond. Power (dBm)	Max. Tune- up Power (dBm)	Scaling Factor	Meas. SAR-1g (W/kg)	Reported SAR-1g (W/kg)	SAR Plot #
GPRS 850	GPRS 850 (2Slot)	128	824.2	Front	5	31.49	32.0	1.12	0.66	0.74	1
		128	824.2	Front ¹	5	31.49	32.0	1.12	0.66	0.74	
		189	836.4	Front	5	31.68	32.0	1.08	0.63	0.68	
				Back	5	31.68	32.0	1.08	0.20	0.22	
		251	848.8	Front	5	31.48	32.0	1.13	0.60	0.68	
GPRS 1900	GPRS 1900 (2Slot)	512	1850.2	Front	5	27.46	28.0	1.13	0.35	0.40	2
		512	1850.2	Front ¹	5	27.46	28.0	1.13	0.29	0.33	
		661	1880	Front	5	27.43	28.0	1.14	0.32	0.36	
		810	1909.8	Front	5	27.53	28.0	1.11	0.31	0.35	
				Back	5	27.53	28.0	1.11	0.30	0.33	

Note:

1. SAR worst case retest with sample 2.

WCDMA											
Band	Mode	CH.	Freq. (MHz)	Body Position	Dist. (mm)	Cond. Power (dBm)	Max. Tune- up Power (dBm)	Scaling Factor	Meas. SAR-1g (W/kg)	Reported SAR-1g (W/kg)	SAR Plot #
Band 2	12.2kbps RMC	9262	1852.4	Front	5	23.58	24.0	1.10	0.64	0.70	3
				Front ¹	5	23.58	24.0	1.10	0.59	0.65	
				Back	5	23.58	24.0	1.10	0.48	0.53	
		9400	1880	Front	5	23.54	24.0	1.11	0.60	0.67	
		9538	1907.6	Front	5	23.57	24.0	1.10	0.58	0.64	
Band 4	12.2kbps RMC	1312	1712.4	Front	5	23.52	24.0	1.12	0.64	0.71	
		1413	1732.6	Front	5	23.36	23.5	1.03	0.67	0.69	
		1513	1752.6	Front	5	23.59	24.0	1.10	0.81	0.89	4
				Front ²	5	23.59	24.0	1.10	0.78	0.86	
				Front ¹	5	23.59	24.0	1.10	0.64	0.70	
				Back	5	23.59	24.0	1.10	0.59	0.65	
Band 5	12.2kbps RMC	4132	826.4	Front	5	23.65	24.0	1.08	0.67	0.73	5
		4132	826.4	Front ¹	5	23.65	24.0	1.08	0.63	0.68	
		4183	836.6	Front	5	23.71	24.0	1.07	0.62	0.66	
		4233	846.6	Front	5	23.76	24.0	1.06	0.59	0.62	
				Back	5	23.76	24.0	1.06	0.19	0.20	

Note:

1. SAR worst case retest with sample 2.
2. Repeated measurement of the highest SAR value.

CDMA											
Band	Mode	CH.	Freq. (MHz)	Body Position	Dist. (mm)	Cond. Power (dBm)	Max. Tune- up Power (dBm)	Scaling Factor	Meas. SAR-1g (W/kg)	Reported SAR-1g (W/kg)	SAR Plot #
BC0	SO32/RC3 (FCH only)	1013	824.7	Front	5	23.12	23.5	1.09	0.67	0.73	6
		1013	824.7	Front ¹	5	23.12	23.5	1.09	0.63	0.69	
		384	836.52	Front	5	23.22	23.5	1.07	0.60	0.64	
		777	848.31	Front	5	23.51	24.0	1.12	0.53	0.59	
				Back	5	23.51	24.0	1.12	0.22	0.25	
BC1	SO32/RC3 (FCH only)	25	1851.25	Front	5	23.29	23.5	1.05	0.58	0.61	7
		25	1851.25	Front ¹	5	23.29	23.5	1.05	0.53	0.56	
		600	1880	Front	5	23.21	23.5	1.07	0.56	0.60	
		1175	1908.75	Front	5	23.33	23.5	1.04	0.54	0.56	
				Back	5	23.33	23.5	1.04	0.52	0.54	

Note:

1. SAR worst case retest with sample 2.

LTE												
Band	BW (MHz)	RB Set	CH.	Freq. (MHz)	Body Position	Dist. (mm)	Cond. Power (dBm)	Max. Tune-up Power (dBm)	Scaling Factor	Meas. SAR-1g (W/kg)	Reported SAR-1g (W/kg)	SAR Plot #
Band 4	20	1RB_OS99	20050	1720	Front	5	23.23	23.5	1.06	0.62	0.66	
			20175	1732.5	Front	5	23.23	23.5	1.06	0.68	0.72	
			20300	1745	Front	5	23.46	24.0	1.13	0.68	0.77	8
					Front ¹	5	23.46	24.0	1.13	0.57	0.65	
					Back	5	23.46	24.0	1.13	0.65	0.74	
		50RB_OS50	20050	1720	Front	5	22.27	22.5	1.05	0.53	0.56	
			20175	1732.5	Front	5	22.28	22.5	1.05	0.53	0.56	
			20300	1745	Front	5	22.51	23.0	1.12	0.57	0.64	
					Back	5	22.51	23.0	1.12	0.53	0.59	
Band 5	10	1RB_OS49	20450	829	Front	5	23.64	24.00	1.09	0.54	0.59	
					Back	5	23.64	24.00	1.09	0.16	0.17	
			20525	836.5	Front	5	23.45	24.00	1.14	0.55	0.62	9
			20525	836.5	Front ¹	5	23.45	24.00	1.14	0.44	0.50	
		25RB_OS25	20600	844	Front	5	23.48	24.00	1.13	0.54	0.61	
			20450	829	Front	5	22.53	23.0	1.11	0.45	0.50	
					Front	5	22.47	23.0	1.13	0.44	0.50	
			20525	836.5	Front	5	22.60	23.0	1.10	0.43	0.47	
					Back	5	22.60	23.0	1.10	0.12	0.13	
			20600	844	Front	5	22.60	23.0	1.10	0.12	0.13	
Band 7	20	1RB_OS49	20850	2510	Front	5	23.06	23.5	1.11	0.78	0.86	
			21100	2535	Front	5	23.55	24.0	1.11	0.90	1.00	
					Back	5	23.55	24.0	1.11	0.31	0.34	
			21350	2560	Front	5	22.53	23.0	1.11	1.02	1.14	10
			21350	2560	Front ²	5	22.53	23.0	1.11	0.94	1.05	
			21350	2560	Front ¹	5	22.53	23.0	1.11	0.51	0.57	
		50RB_OS24	20850	2510	Front	5	22.51	23.0	1.12	0.66	0.74	
					Back	5	22.51	23.0	1.12	0.29	0.32	
			21100	2535	Front	5	22.30	22.5	1.05	0.72	0.75	
			21350	2560	Front	5	21.86	22.0	1.03	0.74	0.76	
		100RB_OS0	20850	2510	Front	5	22.43	23.0	1.14	0.65	0.74	

Note:

1. SAR worst case retest with sample 2.
2. Repeated measurement of the highest SAR value.

LTE												
Band	BW (MHz)	RB Set	CH.	Freq. (MHz)	Body Position	Dist. (mm)	Cond. Power (dBm)	Max. Tune-up Power (dBm)	Scaling Factor	Meas. SAR-1g (W/kg)	Reported SAR-1g (W/kg)	SAR Plot #
Band 12	10	1RB_OS24	23060	704	Front	5	24.16	24.5	1.08	0.43	0.47	
			23095	707.5	Front	5	23.84	24.0	1.04	0.43	0.45	
			23130	711	Front	5	24.29	24.5	1.05	0.48	0.50	11
					Front ¹	5	24.29	24.5	1.05	0.48	0.50	
					Back	5	24.29	24.5	1.05	0.07	0.07	
		25RB_OS50	23060	704	Front	5	22.96	23.5	1.13	0.31	0.35	
			23095	707.5	Front	5	22.89	23.5	1.15	0.33	0.38	
			23130	711	Front	5	22.97	23.5	1.13	0.34	0.38	
					Back	5	22.97	23.5	1.13	0.05	0.06	
Band 13	10	1RB_OS49	23230	782	Front	5	24.29	24.5	1.05	0.64	0.67	
					Front ¹	5	24.29	24.5	1.05	0.68	0.71	12
					Back	5	24.29	24.5	1.05	0.16	0.17	
		25RB_OS25	23230	782	Front	5	22.80	23.0	1.05	0.49	0.51	
					Back	5	22.80	23.0	1.05	0.12	0.13	
Band 25	20	1RB_OS0	26140	1860	Back	5	23.13	23.5	1.09	0.60	0.65	13
			26140	1860	Back ¹	5	23.13	23.5	1.09	0.26	0.28	
			26365	1882.5	Front	5	23.47	24.0	1.13	0.55	0.62	
					Back	5	23.47	24.0	1.13	0.58	0.66	
			26590	1905	Back	5	23.15	23.5	1.08	0.60	0.65	
		50RB_OS50	26140	1860	Front	5	22.43	23.0	1.14	0.46	0.52	
					Back	5	22.43	23.0	1.14	0.44	0.50	
			26365	1882.5	Front	5	22.37	22.5	1.03	0.42	0.43	
			26590	1905	Front	5	22.26	22.5	1.06	0.42	0.44	

Note:

1. SAR worst case retest with sample 2.

LTE												
Band	BW (MHz)	RB Set	CH.	Freq. (MHz)	Body Position	Dist. (mm)	Cond. Power (dBm)	Max. Tune-up Power (dBm)	Scaling Factor	Meas. SAR-1g (W/kg)	Reported SAR-1g (W/kg)	SAR Plot #
Band 41	20	1RB_OS49	39750	2506	Front	5	23.10	23.5	1.10	0.27	0.30	
					Back	5	23.10	23.5	1.10	0.14	0.15	
			40185	2549.5	Front	5	23.06	23.5	1.11	0.37	0.41	14
			40185	2549.5	Front ¹	5	23.06	23.5	1.11	0.21	0.23	
			40620	2593	Front	5	22.83	23.0	1.04	0.32	0.33	
			41055	2636.5	Front	5	22.76	23.0	1.06	0.31	0.33	
			41490	2680	Front	5	22.86	23.0	1.03	0.38	0.39	
		50RB_OS0	39750	2506	Front	5	22.31	22.5	1.04	0.22	0.23	
					Back	5	22.31	22.5	1.04	0.11	0.11	
			40185	2549.5	Front	5	21.87	22.0	1.03	0.27	0.28	
			40620	2593	Front	5	21.79	22.0	1.05	0.26	0.27	
			41055	2636.5	Front	5	21.59	22.0	1.10	0.25	0.27	
			41490	2680	Front	5	21.72	22.0	1.07	0.28	0.30	

Note:

1. SAR worst case retest with sample 2.

Wi-Fi													
Band	Mode	CH.	Freq. (MHz)	Body Position	Dist. (mm)	Cond. Power (dBm)	Max. Tune- up Power (dBm)	Scaling Factor	Duty Cycle %	Duty Cycle Factor	Meas. SAR-1g (W/kg)	Reported SAR-1g (W/kg)	SAR Plot #
DTS	b	1	2412	Back	5	14.71	15.0	1.07	97.50	1.03	0.08	0.09	
		6	2437	Back	5	14.59	15.0	1.10	97.50	1.03	0.07	0.08	
		11	2462	Front	5	14.88	15.0	1.03	97.50	1.03	0.08	0.08	
				Back	5	14.88	15.0	1.03	97.50	1.03	0.10	0.11	15
				Back ¹	5	14.88	15.0	1.03	97.50	1.03	0.08	0.08	
U-NII-2A	a	52	5260	Back	5	13.81	14.0	1.04	82.54	1.21	0.10	0.13	
		60	5300	Front	5	13.84	14.0	1.04	82.54	1.21	0.05	0.06	
				Back	5	13.84	14.0	1.04	82.54	1.21	0.10	0.13	
		64	5320	Back	5	13.83	14.0	1.04	82.54	1.21	0.10	0.13	
		64	5320	Back ¹	5	13.83	14.0	1.04	82.54	1.21	0.11	0.14	16
U-NII-2C	a	100	5500	Back	5	13.63	14.0	1.09	82.54	1.21	0.12	0.16	
		120	5600	Back	5	13.72	14.0	1.07	82.54	1.21	0.13	0.17	
		144	5720	Front	5	13.84	14.0	1.04	82.54	1.21	0.08	0.10	
				Back	5	13.84	14.0	1.04	82.54	1.21	0.14	0.18	17
				Back ¹	5	13.84	14.0	1.04	82.54	1.21	0.11	0.14	
U-NII-3	a	149	5745	Back	5	13.67	14.0	1.08	82.54	1.21	0.13	0.17	18
		149	5745	Back ¹	5	13.67	14.0	1.08	82.54	1.21	0.13	0.17	
		157	5785	Front	5	13.83	14.0	1.04	82.54	1.21	0.06	0.08	
				Back	5	13.83	14.0	1.04	82.54	1.21	0.12	0.15	
		165	5825	Back	5	13.67	14.0	1.08	82.54	1.21	0.11	0.14	

Note:

1. SAR worst case retest with sample 2.

Extremity

GPRS											
Band	Mode	CH.	Freq. (MHz)	Extremity Position	Dist. (mm)	Cond. Power (dBm)	Max. Tune-up Power (dBm)	Scaling Factor	Meas. SAR-10g (W/kg)	Reported SAR-10g (W/kg)	SAR Plot #
GPRS 850	GPRS 850 (2Slot)	128	824.2	Front	0	31.49	32.0	1.12	0.67	0.75	
		189	836.4	Front	0	31.68	32.0	1.08	0.65	0.70	
				Back	0	31.68	32.0	1.08	0.22	0.24	
				Left	0	31.68	32.0	1.08	0.37	0.40	
				Left-Back	0	31.68	32.0	1.08	0.34	0.37	
				Right	0	31.68	32.0	1.08	0.24	0.26	
				Right-Back	0	31.68	32.0	1.08	0.21	0.23	
				Top	0	31.68	32.0	1.08	0.39	0.42	
		251	848.8	Front	0	31.48	32.0	1.13	0.70	0.79	
		251	848.8	Front ¹	0	31.48	32.0	1.13	0.72	0.81	19
GPRS 1900	GPRS 1900 (2Slot)	512	1850.2	Top	0	27.46	28.0	1.13	1.50	1.70	20
		512	1850.2	Top ¹	0	27.46	28.0	1.13	1.13	1.28	
		661	1880	Top	0	27.43	28.0	1.14	1.36	1.55	
		810	1909.8	Front	0	27.53	28.0	1.11	0.44	0.49	
				Back	0	27.53	28.0	1.11	0.32	0.36	
				Left	0	27.53	28.0	1.11	0.10	0.11	
				Left-Back	0	27.53	28.0	1.11	0.15	0.17	
				Right	0	27.53	28.0	1.11	0.55	0.61	
				Right-Back	0	27.53	28.0	1.11	0.54	0.60	
				Top	0	27.53	28.0	1.11	1.23	1.37	

Note:

1. SAR worst case retest with sample 2.

WCDMA											
Band	Mode	CH.	Freq. (MHz)	Extremity Position	Dist. (mm)	Cond. Power (dBm)	Max. Tune- up Power (dBm)	Scaling Factor	Meas. SAR- 10g (W/kg)	Reported SAR-10g (W/kg)	SAR Plot #
Band 2	12.2kbps RMC	9262	1852.4	Front	0	23.58	24.0	1.10	0.88	0.97	
				Back	0	23.58	24.0	1.10	0.63	0.69	
				Left	0	23.58	24.0	1.10	0.22	0.24	
				Left-Back	0	23.58	24.0	1.10	0.45	0.50	
				Right	0	23.58	24.0	1.10	0.99	1.09	
				Right-Back	0	23.58	24.0	1.10	0.98	1.08	
				Top	0	23.58	24.0	1.10	2.68	2.95	21
				Top ²	0	23.58	24.0	1.10	2.60	2.86	
				Top ¹	0	23.58	24.0	1.10	2.55	2.81	
		9400	1880	Top	0	23.54	24.0	1.11	2.52	2.80	
		9538	1907.6	Top	0	23.57	24.0	1.10	2.27	2.51	
Band 4	12.2kbps RMC	1312	1712.4	Top	0	23.52	24.0	1.12	2.53	2.83	
		1413	1732.6	Top	0	23.36	23.5	1.03	2.66	2.75	
		1513	1752.6	Front	0	23.59	24.0	1.10	0.92	1.01	
				Back	0	23.59	24.0	1.10	0.62	0.68	
				Left	0	23.59	24.0	1.10	0.28	0.31	
				Left-Back	0	23.59	24.0	1.10	0.35	0.38	
				Right	0	23.59	24.0	1.10	1.01	1.11	
				Right-Back	0	23.59	24.0	1.10	0.69	0.76	
				Top	0	23.59	24.0	1.10	2.66	2.92	
				Top ²	0	23.59	24.0	1.10	2.79	3.07	22
				Top ¹	0	23.59	24.0	1.10	2.18	2.40	
Band 5	12.2kbps RMC	4132	826.4	Front	0	23.65	24.0	1.08	0.61	0.66	23
		4132	826.4	Front ¹	0	23.65	24.0	1.08	0.61	0.66	
		4183	836.6	Front	0	23.71	24.0	1.07	0.57	0.61	
		4233	846.6	Front	0	23.76	24.0	1.06	0.58	0.61	
				Back	0	23.76	24.0	1.06	0.19	0.20	
				Left	0	23.76	24.0	1.06	0.33	0.35	
				Left-Back	0	23.76	24.0	1.06	0.29	0.31	
				Right	0	23.76	24.0	1.06	0.27	0.29	
				Right-Back	0	23.76	24.0	1.06	0.22	0.23	
				Top	0	23.76	24.0	1.06	0.42	0.44	

Note:

1. SAR worst case retest with sample 2.
2. Repeated measurement of the highest SAR value.

CDMA											
Band	Mode	CH.	Freq. (MHz)	Extremity Position	Dist. (mm)	Cond. Power (dBm)	Max. Tune- up Power (dBm)	Scaling Factor	Meas. SAR- 10g (W/kg)	Reported SAR-10g (W/kg)	SAR Plot #
BC0	SO32/RC3 (FCH only)	1013	824.7	Front	0	23.12	23.5	1.09	0.58	0.63	24
		1013	824.7	Front ¹	0	23.12	23.5	1.09	0.57	0.62	
		384	836.52	Front	0	23.22	23.5	1.07	0.56	0.60	
		777	848.31	Front	0	23.51	24.0	1.12	0.52	0.58	
				Back	0	23.51	24.0	1.12	0.23	0.26	
				Left	0	23.51	24.0	1.12	0.32	0.36	
				Left-Back	0	23.51	24.0	1.12	0.32	0.36	
				Right	0	23.51	24.0	1.12	0.31	0.35	
				Right-Back	0	23.51	24.0	1.12	0.25	0.28	
				Top	0	23.51	24.0	1.12	0.33	0.37	
BC1	SO32/RC3 (FCH only)	25	1851.25	Top	0	23.29	23.5	1.05	2.36	2.48	
		600	1880	Top	0	23.21	23.5	1.07	2.32	2.48	25
		600	1880	Top ²	0	23.21	23.5	1.07	2.30	2.46	
		600	1880	Top ¹	0	23.21	23.5	1.07	2.25	2.41	
		1175	1908.75	Front	0	23.33	23.5	1.04	0.80	0.83	
				Back	0	23.33	23.5	1.04	0.96	1.00	
				Left	0	23.33	23.5	1.04	0.17	0.18	
				Left-Back	0	23.33	23.5	1.04	0.32	0.33	
				Right	0	23.33	23.5	1.04	0.82	0.85	
				Right-Back	0	23.33	23.5	1.04	0.81	0.84	
				Top	0	23.33	23.5	1.04	2.21	2.30	

Note:

1. SAR worst case retest with sample 2.
2. Repeated measurement of the highest SAR value.

LTE												
Band	BW (MHz)	RB Set	CH.	Freq. (MHz)	Extremity Position	Dist. (mm)	Cond. Power (dBm)	Max. Tune-up Power (dBm)	Scaling Factor	Meas. SAR-1g (W/kg)	Reported SAR-1g (W/kg)	SAR Plot #
Band 4	20	1RB_OS99	20050	1720	Top	0	22.63	23.0	1.09	2.63	2.86	
			20175	1732.5	Top	0	23.23	23.5	1.06	2.52	2.68	
			20300	1745	Front	0	23.46	24.0	1.13	0.91	1.03	
					Back	0	23.46	24.0	1.13	0.70	0.79	
					Left	0	23.46	24.0	1.13	0.29	0.33	
					Left-Back	0	23.46	24.0	1.13	0.38	0.43	
					Right	0	23.46	24.0	1.13	0.94	1.06	
					Right-Back	0	23.46	24.0	1.13	0.99	1.12	
					Top	0	23.46	24.0	1.13	2.67	3.02	26
					Top ²	0	23.46	24.0	1.13	2.66	3.01	
					Top ¹	0	23.46	24.0	1.13	1.96	2.22	
		50RB_OS50	20050	1720	Top	0	22.27	22.5	1.05	2.11	2.22	
			20175	1732.5	Top	0	22.28	22.5	1.05	2.10	2.21	
			20300	1745	Front	0	22.51	23.0	1.12	0.75	0.84	
					Back	0	22.51	23.0	1.12	0.52	0.58	
					Left	0	22.51	23.0	1.12	0.21	0.24	
					Left-Back	0	22.51	23.0	1.12	0.29	0.32	
					Right	0	22.51	23.0	1.12	0.78	0.87	
					Right-Back	0	22.51	23.0	1.12	0.79	0.88	
					Top	0	22.51	23.0	1.12	2.24	2.51	
		100RB_OS0	20300	1745	Top	0	22.45	23.0	1.14	2.18	2.47	

Note:

1. SAR worst case retest with sample 2.
2. Repeated measurement of the highest SAR value.

LTE												
Band	BW (MHz)	RB Set	CH.	Freq. (MHz)	Extremity Position	Dist. (mm)	Cond. Power (dBm)	Max. Tune- up Power (dBm)	Scaling Factor	Meas. SAR-1g (W/kg)	Reported SAR-1g (W/kg)	SAR Plot #
Band 5	10	1RB_O S49	20450	829	Front	0	23.64	24.00	1.09	0.56	0.61	27
					Front ²	0	23.64	24.00	1.09	0.54	0.59	
					Front ¹	0	23.64	24.00	1.09	0.51	0.55	
					Back	0	23.64	24.00	1.09	0.17	0.18	
					Left	0	23.64	24.00	1.09	0.31	0.34	
					Left-Back	0	23.64	24.00	1.09	0.29	0.32	
					Right	0	23.64	24.00	1.09	0.21	0.23	
					Right-Back	0	23.64	24.00	1.09	0.17	0.18	
					Top	0	23.64	24.00	1.09	0.36	0.39	
		25RB_ OS25	20525	836.5	Front	0	23.45	24.00	1.14	0.51	0.58	
			20600	844	Front	0	23.48	24.00	1.13	0.53	0.60	
			20450	829	Front	0	22.53	23.0	1.11	0.47	0.52	
			20525	836.5	Front	0	22.47	23.0	1.13	0.46	0.52	
			20600	844	Front	0	22.60	23.0	1.10	0.43	0.47	
					Back	0	22.60	23.0	1.10	0.12	0.13	
					Left	0	22.60	23.0	1.10	0.22	0.24	
					Left-Back	0	22.60	23.0	1.10	0.20	0.22	
					Right	0	22.60	23.0	1.10	0.15	0.16	
					Right-Back	0	22.60	23.0	1.10	0.11	0.12	
					Top	0	22.60	23.0	1.10	0.29	0.32	

Note:

1. SAR worst case retest with sample 2.
2. Repeated measurement of the highest SAR value.

LTE												
Band	BW (MHz)	RB Set	CH.	Freq. (MHz)	Extremity Position	Dist. (mm)	Cond. Power (dBm)	Max. Tune-up Power (dBm)	Scaling Factor	Meas. SAR-1g (W/kg)	Reported SAR-1g (W/kg)	SAR Plot #
Band 7	20	1RB_O S49	20850	2510	Top	0	23.06	23.5	1.11	2.14	2.37	
			21100	2535	Front	0	23.55	24.0	1.11	0.87	0.96	
					Back	0	23.55	24.0	1.11	0.22	0.24	
					Left	0	23.55	24.0	1.11	0.41	0.45	
					Left-Back	0	23.55	24.0	1.11	0.53	0.59	
					Right	0	23.55	24.0	1.11	0.70	0.78	
					Right-Back	0	23.55	24.0	1.11	0.52	0.58	
					Top	0	23.55	24.0	1.11	2.36	2.62	
			21350	2560	Top	0	22.53	23.0	1.11	2.45	2.73	28
			21350	2560	Top ²	0	22.53	23.0	1.11	2.40	2.67	
			21350	2560	Top ¹	0	22.53	23.0	1.11	1.72	1.92	
		50RB_OS24	20850	2510	Front	0	22.51	23.0	1.12	0.67	0.75	
					Back	0	22.51	23.0	1.12	0.20	0.22	
					Left	0	22.51	23.0	1.12	0.26	0.29	
					Left-Back	0	22.51	23.0	1.12	0.36	0.40	
					Right	0	22.51	23.0	1.12	0.53	0.59	
					Right-Back	0	22.51	23.0	1.12	0.40	0.45	
					Top	0	22.51	23.0	1.12	1.73	1.94	
		100RB_OS0	21100	2535	Top	0	22.30	22.5	1.05	1.84	1.93	
			21350	2560	Top	0	21.86	22.0	1.03	1.86	1.92	
		100RB_OS0	20850	2510	Top	0	22.43	23.0	1.14	1.73	1.97	

Note:

1. SAR worst case retest with sample 2.
2. Repeated measurement of the highest SAR value.

LTE												
Band	BW (MHz)	RB Set	CH.	Freq. (MHz)	Extremity Position	Dist. (mm)	Cond. Power (dBm)	Max. Tune-up Power (dBm)	Scaling Factor	Meas. SAR-1g (W/kg)	Reported SAR-1g (W/kg)	SAR Plot #
Band 12	10	1RB_O S24	23060	704	Front	0	24.16	24.5	1.08	0.56	0.61	
			23060	704	Front ¹	0	24.16	24.5	1.08	0.57	0.62	29
			23095	707.5	Front	0	23.84	24.0	1.04	0.55	0.57	
			23130	711	Front	0	24.29	24.5	1.05	0.53	0.56	
					Back	0	24.29	24.5	1.05	0.09	0.09	
					Left	0	24.29	24.5	1.05	0.25	0.26	
					Left-Back	0	24.29	24.5	1.05	0.32	0.34	
					Right	0	24.29	24.5	1.05	0.13	0.14	
					Right-Back	0	24.29	24.5	1.05	0.10	0.10	
					Top	0	24.29	24.5	1.05	0.44	0.46	
		25RB_OS0	23060	704	Front	0	22.96	23.5	1.13	0.45	0.51	
			23095	707.5	Front	0	22.89	23.5	1.15	0.47	0.54	
			23130	711	Front	0	22.97	23.5	1.13	0.47	0.53	
					Back	0	22.97	23.5	1.13	0.06	0.07	
					Left	0	22.97	23.5	1.13	0.19	0.21	
					Left-Back	0	22.97	23.5	1.13	0.22	0.25	
					Right	0	22.97	23.5	1.13	0.09	0.10	
					Right-Back	0	22.97	23.5	1.13	0.07	0.08	
					Top	0	22.97	23.5	1.13	0.37	0.42	

Note:

1. SAR worst case retest with sample 2.

LTE												
Band	BW (MHz)	RB Set	CH.	Freq. (MHz)	Extremity Position	Dist. (mm)	Cond. Power (dBm)	Max. Tune-up Power (dBm)	Scaling Factor	Meas. SAR-1g (W/kg)	Reported SAR-1g (W/kg)	SAR Plot #
Band 13	10	1RB_O S49	23230	782	Front	0	24.29	24.5	1.05	0.60	0.63	
					Front ¹	0	24.29	24.5	1.05	0.64	0.67	30
					Back	0	24.29	24.5	1.05	0.21	0.22	
					Left	0	24.29	24.5	1.05	0.37	0.39	
					Left-Back	0	24.29	24.5	1.05	0.36	0.38	
					Right	0	24.29	24.5	1.05	0.27	0.28	
					Right-Back	0	24.29	24.5	1.05	0.24	0.25	
					Top	0	24.29	24.5	1.05	0.38	0.40	
		25RB_ OS25	23230	782	Front	0	22.80	23.0	1.05	0.51	0.53	
					Back	0	22.80	23.0	1.05	0.16	0.17	
					Left	0	22.80	23.0	1.05	0.28	0.29	
					Left-Back	0	22.80	23.0	1.05	0.27	0.28	
					Right	0	22.80	23.0	1.05	0.21	0.22	
					Right-Back	0	22.80	23.0	1.05	0.19	0.20	
					Top	0	22.80	23.0	1.05	0.31	0.32	

Note:

1. SAR worst case retest with sample 2.

LTE												
Band	BW (MHz)	RB Set	CH.	Freq. (MHz)	Extremity Position	Dist. (mm)	Cond. Power (dBm)	Max. Tune-up Power (dBm)	Scaling Factor	Meas. SAR-1g (W/kg)	Reported SAR-1g (W/kg)	SAR Plot #
Band 25	20	1RB_OS0	26140	1860	Top	0	23.13	23.5	1.09	2.58	2.81	31
			26140	1860	Top ²	0	23.13	23.5	1.09	2.55	2.78	
			26140	1860	Top ¹	0	23.13	23.5	1.09	2.26	2.46	
			26365	1882.5	Front	0	23.47	24.0	1.13	0.80	0.90	
					Back	0	23.47	24.0	1.13	0.60	0.68	
					Left	0	23.47	24.0	1.13	0.19	0.21	
					Left-Back	0	23.47	24.0	1.13	0.42	0.47	
					Right	0	23.47	24.0	1.13	0.87	0.98	
					Right-Back	0	23.47	24.0	1.13	0.89	1.01	
					Top	0	23.47	24.0	1.13	2.35	2.66	
			26590	1905	Top	0	23.15	23.5	1.08	2.24	2.43	
		50RB_OS50	26140	1860	Front	0	22.43	23.0	1.14	0.67	0.76	
					Back	0	22.43	23.0	1.14	0.45	0.51	
					Left	0	22.43	23.0	1.14	0.16	0.18	
					Left-Back	0	22.43	23.0	1.14	0.29	0.33	
					Right	0	22.43	23.0	1.14	0.74	0.84	
					Right-Back	0	22.43	23.0	1.14	0.66	0.75	
					Top	0	22.43	23.0	1.14	2.04	2.33	
			26365	1882.5	Top	0	22.37	22.5	1.03	1.91	1.97	
			26590	1905	Top	0	22.26	22.5	1.06	1.86	1.97	
		100RB_OS0	26140	1860	Top	0	22.37	23.0	1.16	2.03	2.35	

Note:

1. SAR worst case retest with sample 2.
2. Repeated measurement of the highest SAR value.

LTE												
Band	BW (MHz)	RB Set	CH.	Freq. (MHz)	Extremity Position	Dist. (mm)	Cond. Power (dBm)	Max. Tune-up Power (dBm)	Scaling Factor	Meas. SAR-1g (W/kg)	Reported SAR-1g (W/kg)	SAR Plot #
Band 41	20	1RB_O S49	39750	2506	Front	0	23.10	23.5	1.10	0.31	0.34	
					Back	0	23.10	23.5	1.10	0.18	0.20	
					Left	0	23.10	23.5	1.10	0.11	0.12	
					Left-Back	0	23.10	23.5	1.10	0.15	0.16	
					Right	0	23.10	23.5	1.10	0.22	0.24	
					Right-Back	0	23.10	23.5	1.10	0.17	0.19	
					Top	0	23.10	23.5	1.10	0.73	0.80	
			40185	2549.5	Top	0	23.06	23.5	1.11	0.94	1.04	32
			40185	2549.5	Top ¹	0	23.06	23.5	1.11	0.69	0.76	
			40620	2593	Top	0	22.83	23.0	1.04	0.90	0.94	
			41055	2636.5	Top	0	22.76	23.0	1.06	0.80	0.85	
			41490	2680	Top	0	22.86	23.0	1.03	0.90	0.93	
		50RB_OS0	39750	2506	Front	0	22.31	22.5	1.04	0.24	0.25	
					Back	0	22.31	22.5	1.04	0.16	0.17	
					Left	0	22.31	22.5	1.04	0.08	0.08	
					Left-Back	0	22.31	22.5	1.04	0.12	0.13	
					Right	0	22.31	22.5	1.04	0.18	0.19	
					Right-Back	0	22.31	22.5	1.04	0.14	0.15	
					Top	0	22.31	22.5	1.04	0.63	0.66	
			40185	2549.5	Top	0	21.87	22.0	1.03	0.69	0.71	
			40620	2593	Top	0	21.79	22.0	1.05	0.71	0.75	
			41055	2636.5	Top	0	21.59	22.0	1.10	0.68	0.75	
			41490	2680	Top	0	21.72	22.0	1.07	0.70	0.75	

Note:

1. SAR worst case retest with sample 2.

Wi-Fi													
Band	Mode	CH.	Freq. (MHz)	Extremity Position	Dist. (mm)	Cond. Power (dBm)	Max. Tune-up Power (dBm)	Scaling Factor	Duty Cycle %	Duty Cycle Factor	Meas. SAR-1g (W/kg)	Reported SAR-1g (W/kg)	SAR Plot #
DTS	b	1	2412	Left	0	14.71	15.0	1.07	97.50	1.03	0.48	0.53	33
		1	2412	Left ¹	0	14.71	15.0	1.07	97.50	1.03	0.45	0.49	
		6	2437	Left	0	14.59	15.0	1.10	97.50	1.03	0.42	0.47	
		11	2462	Front	0	14.88	15.0	1.03	97.50	1.03	0.04	0.04	
				Back	0	14.88	15.0	1.03	97.50	1.03	0.07	0.07	
				Left	0	14.88	15.0	1.03	97.50	1.03	0.43	0.45	
				Left-Back	0	14.88	15.0	1.03	97.50	1.03	0.24	0.25	
				Right	0	14.88	15.0	1.03	97.50	1.03	0.04	0.04	
				Right-Back	0	14.88	15.0	1.03	97.50	1.03	0.02	0.02	
				Top	0	14.88	15.0	1.03	97.50	1.03	0.01	0.01	
U-NII-2A	a	52	5260	Left-Back	0	13.81	14.0	1.04	82.54	1.21	0.60	0.76	34
		52	5260	Left-Back ¹	0	13.81	14.0	1.04	82.54	1.21	0.58	0.73	
		60	5300	Front	0	13.84	14.0	1.04	82.54	1.21	0.02	0.03	
				Back	0	13.84	14.0	1.04	82.54	1.21	0.07	0.09	
				Left	0	13.84	14.0	1.04	82.54	1.21	0.50	0.63	
				Left-Back	0	13.84	14.0	1.04	82.54	1.21	0.57	0.72	
				Right	0	13.84	14.0	1.04	82.54	1.21	0.01	0.01	
				Right-Back	0	13.84	14.0	1.04	82.54	1.21	0.01	0.01	
				Top	0	13.84	14.0	1.04	82.54	1.21	0.01	0.01	
		64	5320	Left-Back	0	13.83	14.0	1.04	82.54	1.21	0.57	0.72	
U-NII-2C	a	100	5500	Left-Back	0	13.63	14.0	1.09	82.54	1.21	0.66	0.87	
		120	5600	Left-Back	0	13.72	14.0	1.07	82.54	1.21	0.77	1.00	
		144	5720	Front	0	13.84	14.0	1.04	82.54	1.21	0.06	0.08	
				Back	0	13.84	14.0	1.04	82.54	1.21	0.08	0.10	
				Left	0	13.84	14.0	1.04	82.54	1.21	0.61	0.77	
				Left-Back	0	13.84	14.0	1.04	82.54	1.21	0.91	1.14	
				Left-Back ¹	0	13.84	14.0	1.04	82.54	1.21	0.92	1.16	35
				Right	0	13.84	14.0	1.04	82.54	1.21	0.01	0.01	
				Right-Back	0	13.84	14.0	1.04	82.54	1.21	0.01	0.01	
				Top	0	13.84	14.0	1.04	82.54	1.21	0.01	0.01	

Note:

1. SAR worst case retest with sample 2.

Wi-Fi													
Band	Mode	CH.	Freq. (MHz)	Extremity Position	Dist. (mm)	Cond. Power (dBm)	Max. Tune- up Power (dBm)	Scaling Factor	Duty Cycle %	Duty Cycle Factor	Meas. SAR-1g (W/kg)	Reported SAR-1g (W/kg)	SAR Plot #
U-NII-3	a	149	5745	Left-Back	0	13.67	14.0	1.08	82.54	1.21	0.87	1.14	36
		149	5745	Left-Back ¹	0	13.67	14.0	1.08	82.54	1.21	0.86	1.12	
		157	5785	Front	0	13.83	14.0	1.04	82.54	1.21	0.03	0.04	
				Back	0	13.83	14.0	1.04	82.54	1.21	0.06	0.08	
				Left	0	13.83	14.0	1.04	82.54	1.21	0.55	0.69	
				Left-Back	0	13.83	14.0	1.04	82.54	1.21	0.74	0.93	
				Right	0	13.83	14.0	1.04	82.54	1.21	0.01	0.01	
				Right-Back	0	13.83	14.0	1.04	82.54	1.21	0.01	0.01	
				Top	0	13.83	14.0	1.04	82.54	1.21	0.01	0.01	
		165	5825	Left-Back	0	13.67	14.0	1.08	82.54	1.21	0.69	0.90	

Note:

2. SAR worst case retest with sample 2.

8.5. Estimated SAR Calculation

Per FCC KDB 447498 D01v06 section 4.3.2 b) 1), when an antenna qualifies for the standalone SAR test exclusion of 4.3.1 and also transmits simultaneously with other antennas, the standalone SAR value was estimated according to the following formula to result in substantially conservative SAR values of $\leq 0.4\text{W/kg}$ for test separation distance $\leq 50\text{mm}$ to determine the simultaneous transmission SAR test exclusion criteria:

$$\text{Estimated SAR} = \frac{\sqrt{f(\text{GHz})}}{7.5} * \frac{(\text{Max Power of channel, mW})}{\text{Min. Separation, mm}}, \text{ for 1-g SAR}$$

$$\text{Estimated SAR} = \frac{\sqrt{f(\text{GHz})}}{18.75} * \frac{(\text{Max Power of channel, mW})}{\text{Min. Separation, mm}}, \text{ for 10-g SAR}$$

When the test separation distance is $> 50\text{ mm}$, estimated 1g-SAR 0.4W/kg /10g-SAR 1.0W/kg is used for simultaneous evaluation.

■ Body

Test Mode	Freq. (MHz)	Body Position	Ant-to-Distance	Tune-up Power (dBm)	Tune-up Power (mW)	Estimated SAR (W/kg)
BLE	2440	Front	15	3.0	2.0	0.03
	2440	Back	25	3.0	2.0	0.02

■ Extremity

Test Mode	Freq. (MHz)	Extremity Position	Ant-to-Distance	Tune-up Power (dBm)	Tune-up Power (mW)	Estimated SAR (W/kg)
BLE	2440	Front	10	3.0	2.0	0.02
	2440	Back	10	3.0	2.0	0.02
	2440	Left	5	3.0	2.0	0.03
	2440	Left-Back	3	3.0	2.0	0.06
	2440	Right	70	3.0	2.0	1.0
	2440	Right-Back	65	3.0	2.0	1.0
	2440	Top	75	3.0	2.0	1.0

9. Simultaneous Transmission Analysis

■ Body

Body Position	Standalone SAR(W/kg)			Summed SAR(W/kg)					
	1	2	3	1+2	Dist. (mm)	SPLSR	1+3	Dist. (mm)	SPLSR
	WWAN	WLAN	BT						
Front	1.14	0.10	0.03	1.24	--	--	1.17	--	--
Back	0.74	0.18	0.02	0.92	--	--	0.76	--	--

■ Extremity

Extremity Position	Standalone SAR(W/kg)			Summed SAR(W/kg)					
	1	2	3	1+2	Dist. (mm)	SPLSR	1+3	Dist. (mm)	SPLSR
	WWAN	WLAN	BT						
Front	1.03	0.08	0.02	1.11	--	--	1.05	--	--
Back	1.00	0.10	0.02	1.1	--	--	1.02	--	--
Left	0.45	0.77	0.03	1.22	--	--	0.48	--	--
Left-Back	0.59	1.16	0.06	1.75	--	--	0.65	--	--
Right	1.11	0.04	1.0	1.15	--	--	2.11	--	--
Right-Back	1.12	0.02	1.0	1.14	--	--	2.12	--	--
Top	3.07	0.01	1.0	3.08	--	--	4.07	90	0.09

Note:

1. When the sum of SAR is larger than the limit, SAR test exclusion is determined by the SAR to peak location separation ratio. The ratio is determined by $(SAR1 + SAR2)^{1.5}/R_i$, rounded to two decimal digits, and must be ≤ 0.04 for all antenna pairs in the configuration to qualify for 1-g SAR test exclusion. When 10-g SAR applies, the ratio must be ≤ 0.10 .
2. When standalone test exclusion applies, thus SAR is estimated, the peak location is assumed to be at the feed-point or geometric center of the antenna, the distance between the geometric centers of two antennas is 90mm.

The above numerical summed SAR results for all the worst-case simultaneous transmission conditions were below the SAR limit. Therefore, the above analysis is sufficient to determine that simultaneous transmission cases will not exceed the SAR limit and therefore no measured volumetric simultaneous SAR summation is required per FCC KDB Publication 447498 D01v06.

10. Test Equipment Used

SR3 - SAR					
Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cali. Due Date
Stäubli Robot TX60L	Stäubli	TX60L	MRTSUE06412	only once	only once
Robot Controller	Stäubli	CS8C	MRTSUE06412	only once	only once
ELI Phantom Shell	Speag	V8	MRTSUE06420	N/A	N/A
DAK	Speag	DAK-3.5	MRTSUE06435	N/A	N/A
Dipole Validation Kits	Speag	D750V3	MRTSUE06426	3 year	2021/05/17
Dipole Validation Kits	Speag	D850V2	MRTSUE06427	3 year	2021/05/22
Dipole Validation Kits	Speag	D1750V2	MRTSUE06428	3 year	2021/05/14
Dipole Validation Kits	Speag	D1900V2	MRTSUE06429	3 year	2021/05/13
Dipole Validation Kits	Speag	D2450V2	MRTSUE06430	3 year	2021/05/08
Dipole Validation Kits	Speag	D2600V2	MRTSUE06431	3 year	2021/05/15
Dipole Validation Kits	Speag	D5GHzV2	MRTSUE06434	3 year	2022/04/15
DAE4	Speag	SD 000 D04 BN	MRTSUE06414	1 year	2021/05/05
E-Field Probe	Speag	EX3DV4	MRTSUE06438	1 year	2021/05/19
Network Analyzer	Keysight	N5234B	MRTSUE06454	1 year	2021/07/02
Directional Coupler	Agilent	778D	MRTSUE06083	1 year	2021/03/25
Directional Coupler	Agilent	87301D OPT 292	MRTSUE06082	1 year	2021/03/25
Signal Generator	Keysight	N5183B	MRTSUE06197	1 year	2021/04/14
Power Sensor	Keysight	U2021XA	MRTSUE06447	1 year	2021/06/11
Thermohygrometer	Testo	622	MRTSUE06361	1 year	2021/05/12

Software	Version	Function
DASY NEO	52.10.4.1527	SAR Test Software

11. Measurement Uncertainty

DASY5 Uncertainty Budget, according to IEEE 1528 (0.3 - 3 GHz range)								
Error Description	Uncert. value	Prob. Dist.	Div.	(ci) 1g	(ci) 10g	Std. Unc. (1g)	Std. Unc. (10g)	(vi) v _{eff}
Measurement System								
Probe Calibration	±6.0 %	N	1	1	1	±6.0 %	±6.0 %	∞
Axial Isotropy	±4.7 %	R	$\sqrt{3}$	0.7	0.7	±1.9 %	±1.9 %	∞
Hemispherical Isotropy	±9.6 %	R	$\sqrt{3}$	0.7	0.7	±3.9 %	±3.9 %	∞
Boundary Effects	±1.0 %	R	$\sqrt{3}$	1	1	±0.6 %	±0.6 %	∞
Linearity	±4.7 %	R	$\sqrt{3}$	1	1	±2.7 %	±2.7 %	∞
System Detection Limits	±1.0 %	R	$\sqrt{3}$	1	1	±0.6 %	±0.6 %	∞
Modulation Response	±2.4 %	R	$\sqrt{3}$	1	1	±1.4 %	±1.4 %	∞
Readout Electronics	±0.3 %	N	1	1	1	±0.3 %	±0.3 %	∞
Response Time	±0.8 %	R	$\sqrt{3}$	1	1	±0.5 %	±0.5 %	∞
Integration Time	±2.6 %	R	$\sqrt{3}$	1	1	±1.5 %	±1.5 %	∞
RF Ambient Noise	±3.0 %	R	$\sqrt{3}$	1	1	±1.7 %	±1.7 %	∞
RF Ambient Reflections	±3.0 %	R	$\sqrt{3}$	1	1	±1.7 %	±1.7 %	∞
Probe Positioner	±0.02 %	R	$\sqrt{3}$	1	1	±0.0 %	±0.0 %	∞
Probe Positioning	±0.4 %	R	$\sqrt{3}$	1	1	±0.2 %	±0.2 %	∞
Max. SAR Eval.	±2.0 %	R	$\sqrt{3}$	1	1	±1.2 %	±1.2 %	∞
Test Sample Related								
Device Positioning	±2.9%	N	1	1	1	±2.9 %	±2.9 %	145
Device Holder	±3.6%	N	1	1	1	±3.6 %	±3.6 %	5
Power Drift	±5.0%	R	$\sqrt{3}$	1	1	±2.9 %	±2.9 %	∞
Power Scaling	±0%	R	$\sqrt{3}$	1	1	±0.0 %	±0.0 %	∞
Phantom and Setup								
Phantom Uncertainty	±6.1%	R	$\sqrt{3}$	1	1	±3.5 %	±3.5 %	∞
SAR correction	±1.9%	N	1	1	0.84	±1.9 %	±1.6 %	∞
Liquid Cond. (mea.) ^{DAK}	±2.5%	N	1	0.78	0.71	±2.0 %	±1.8 %	∞
Liquid Perm. (mea.) ^{DAK}	±2.5%	N	1	0.23	0.26	±0.6 %	±0.7 %	∞
Temp. unc. – Conductivity	±3.4%	R	$\sqrt{3}$	0.78	0.71	±1.5 %	±1.4 %	∞
Temp. unc. – Permittivity	±0.4%	R	$\sqrt{3}$	0.23	0.26	±0.1 %	±0.1 %	∞
Combined Std. Uncertainty						±11.3%	±11.2%	459
Expanded STD Uncertainty						±22.6%	±22.4%	

DASY5 Uncertainty Budget, according to IEEE 1528 (3 - 6 GHz range)								
Error Description	Uncert. value	Prob. Dist.	Div.	(ci) 1g	(ci) 10g	Std. Unc. (10g)	Std. Unc. (10g)	(vi) v _{eff}
Measurement System								
Probe Calibration	±6.55 %	N	1	1	1	±6.55 %	±6.55 %	∞
Axial Isotropy	±4.7 %	R	$\sqrt{3}$	0.7	0.7	±1.9 %	±1.9 %	∞
Hemispherical Isotropy	±9.6 %	R	$\sqrt{3}$	0.7	0.7	±3.9 %	±3.9 %	∞
Boundary Effects	±2.0 %	R	$\sqrt{3}$	1	1	±1.2 %	±1.2 %	∞
Linearity	±4.7 %	R	$\sqrt{3}$	1	1	±2.7 %	±2.7 %	∞
System Detection Limits	±1.0 %	R	$\sqrt{3}$	1	1	±0.6 %	±0.6 %	∞
Modulation Response	±2.4 %	R	$\sqrt{3}$	1	1	±1.4 %	±1.4 %	∞
Readout Electronics	±0.3 %	N	1	1	1	±0.3 %	±0.3 %	∞
Response Time	±0.8 %	R	$\sqrt{3}$	1	1	±0.5 %	±0.5 %	∞
Integration Time	±2.6 %	R	$\sqrt{3}$	1	1	±1.5 %	±1.5 %	∞
RF Ambient Noise	±3.0 %	R	$\sqrt{3}$	1	1	±1.7 %	±1.7 %	∞
RF Ambient Reflections	±3.0 %	R	$\sqrt{3}$	1	1	±1.7 %	±1.7 %	∞
Probe Positioner	±0.04 %	R	$\sqrt{3}$	1	1	±0.0 %	±0.0 %	∞
Probe Positioning	±0.8 %	R	$\sqrt{3}$	1	1	±0.5 %	±0.5 %	∞
Max. SAR Eval.	±4.0 %	R	$\sqrt{3}$	1	1	±2.3 %	±2.3 %	∞
Test Sample Related								
Device Positioning	±2.9%	N	1	1	1	±2.9 %	±2.9 %	145
Device Holder	±3.6%	N	1	1	1	±3.6 %	±3.6 %	5
Power Drift	±5.0%	R	$\sqrt{3}$	1	1	±2.9 %	±2.9 %	∞
Power Scaling	±0%	R	$\sqrt{3}$	1	1	±0.0 %	±0.0 %	∞
Phantom and Setup								
Phantom Uncertainty	±6.6%	R	$\sqrt{3}$	1	1	±3.8 %	±3.8 %	∞
SAR correction	±1.9%	N	1	1	0.84	±1.9 %	±1.6 %	∞
Liquid Cond. (mea.) ^{DAK}	±2.5%	N	1	0.78	0.71	±2.0 %	±1.8 %	∞
Liquid Perm. (mea.) ^{DAK}	±2.5%	N	1	0.23	0.26	±0.6 %	±0.7 %	∞
Temp. unc. – Conductivity	±3.4%	R	$\sqrt{3}$	0.78	0.71	±1.5 %	±1.4 %	∞
Temp. unc. – Permittivity	±0.4%	R	$\sqrt{3}$	0.23	0.26	±0.1 %	±0.1 %	∞
Combined Std. Uncertainty						±11.9%	±11.8%	569
Expanded STD Uncertainty						±23.8%	±23.6%	

Annex A - System Check Result

Test Date: 11/14/2020

SystemPerformanceCheck-SAM2-D750HSL

DUT: Dipole 750 MHz D750V3; Type: D750V3

Communication System: CW; Frequency: 750 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 750 \text{ MHz}$; $\sigma = 0.87 \text{ S/m}$; $\epsilon_r = 43.86$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7524; ConvF(10.41, 10.41, 10.41) @ 750 MHz; Calibrated: 5/20/2020
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1552; Calibrated: 5/6/2020
- Phantom: SAM2; Type: QD OVA 004 AA; Serial: 2089
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

configuration/d=15mm, Pin=250mW, dist=4mm (EX-Probe)/Area Scan (5x15x1): Measurement grid:

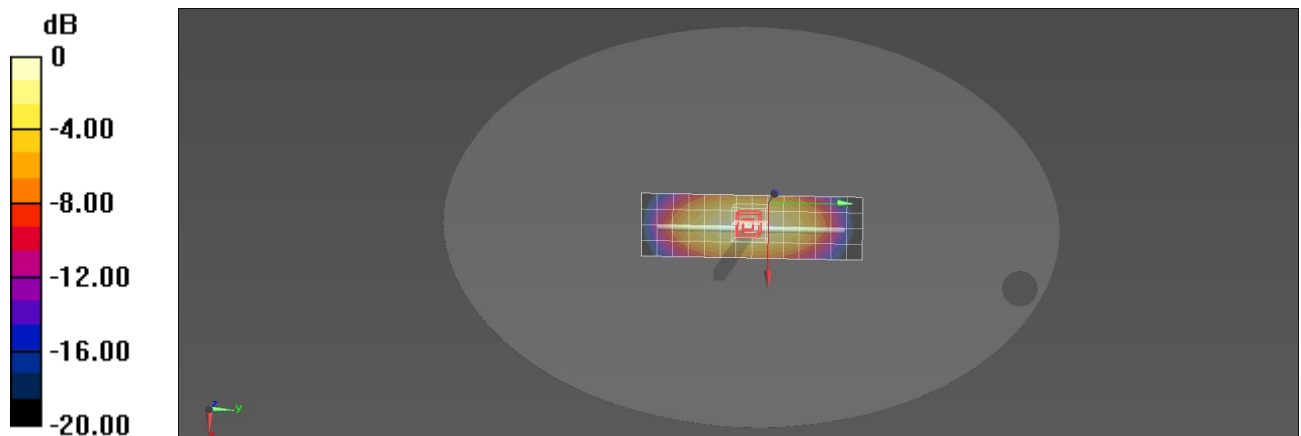
$dx=15\text{mm}$, $dy=15\text{mm}$; Maximum value of SAR (measured) = 2.05 W/kg

configuration/d=15mm, Pin=250mW, dist=4mm (EX-Probe)/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$; Reference Value = 53.61 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 2.86 W/kg

SAR(1 g) = 1.93 W/kg; SAR(10 g) = 1.28 W/kg Maximum value of SAR (measured) = 2.08 W/kg



0 dB = 2.08 W/kg = 3.18 dBW/kg

Test Date: 11/06/2020

SystemPerformanceCheck-SAM2-D850HSL

DUT: Dipole 850 MHz D850V2; Type: D850V2

Communication System: CW; Frequency: 850 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 850 \text{ MHz}$; $\sigma = 0.9 \text{ S/m}$; $\epsilon_r = 43.38$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7524; ConvF(10.04, 10.04, 10.04) @ 850 MHz; Calibrated: 5/20/2020
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1552; Calibrated: 5/6/2020
- Phantom: SAM2; Type: QD OVA 004 AA; Serial: 2089
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

configuration/d=15mm, Pin=250mW, dist=4mm (EX-Probe)/Area Scan (6x14x1): Measurement grid:

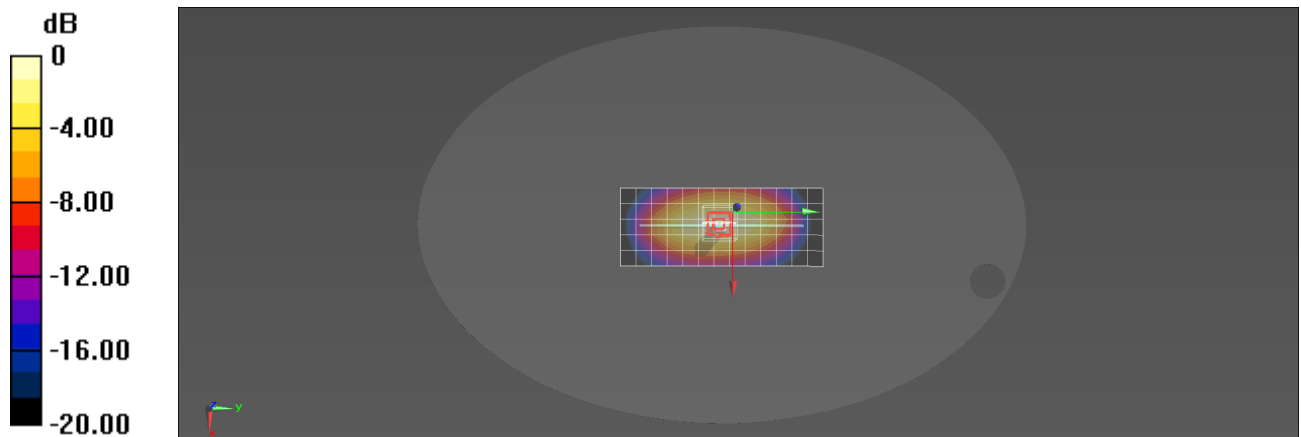
$dx=15\text{mm}$, $dy=15\text{mm}$; Maximum value of SAR (measured) = 2.36 W/kg

configuration/d=15mm, Pin=250mW, dist=4mm (EX-Probe)/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$; Reference Value = 58.21 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 3.41 W/kg

SAR(1 g) = 2.31 W/kg; SAR(10 g) = 1.52 W/kg Maximum value of SAR (measured) = 2.50 W/kg



0 dB = 2.50 W/kg = 3.98 dBW/kg

Test Date: 11/13/2020

SystemPerformanceCheck-SAM2-D850HSL

DUT: Dipole 850 MHz D850V2; Type: D850V2

Communication System: CW; Frequency: 850 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 850 \text{ MHz}$; $\sigma = 0.89 \text{ S/m}$; $\epsilon_r = 42.55$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7524; ConvF(10.04, 10.04, 10.04) @ 850 MHz; Calibrated: 5/20/2020
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1552; Calibrated: 5/6/2020
- Phantom: SAM2; Type: QD OVA 004 AA; Serial: 2089
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

configuration/d=15mm, Pin=250mW, dist=4mm (EX-Probe)/Area Scan (6x14x1): Measurement grid:

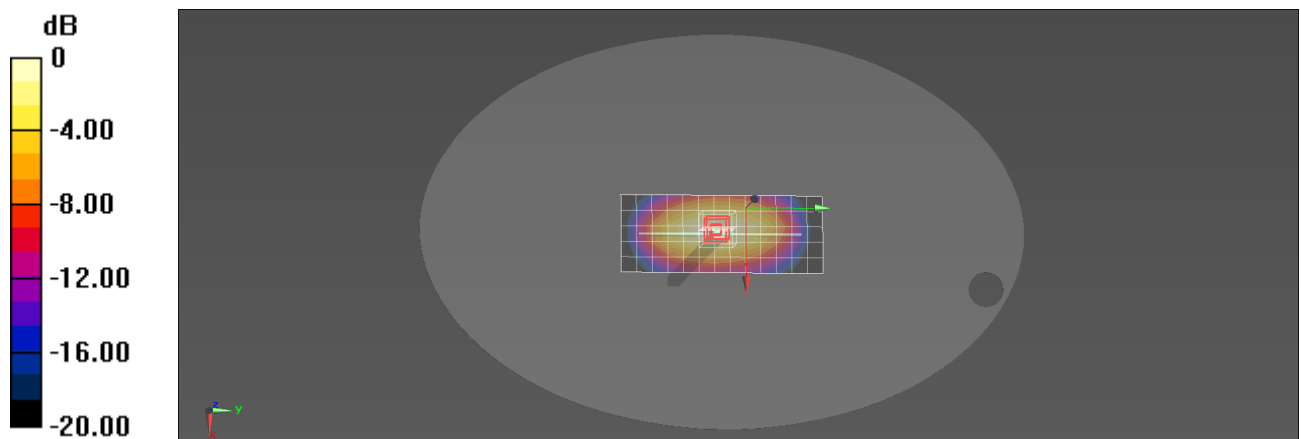
$dx=15\text{mm}$, $dy=15\text{mm}$; Maximum value of SAR (measured) = 2.38 W/kg

configuration/d=15mm, Pin=250mW, dist=4mm (EX-Probe)/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$; Reference Value = 59.25 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 3.32 W/kg

SAR(1 g) = 2.24 W/kg; SAR(10 g) = 1.47 W/kg Maximum value of SAR (measured) = 2.42 W/kg



0 dB = 2.42 W/kg = 3.84 dBW/kg

Test Date: 11/05/2020

SystemPerformanceCheck-SAM2-D1750HSL

DUT: Dipole 1750 MHz D1750V2; Type: D1750V2

Communication System: CW; Frequency: 1750 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1750$ MHz; $\sigma = 1.33$ S/m; $\epsilon_r = 41.7$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7524; ConvF(8.5, 8.5, 8.5) @ 1750 MHz; Calibrated: 5/20/2020
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1552; Calibrated: 5/6/2020
- Phantom: SAM2; Type: QD OVA 004 AA; Serial: 2089
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

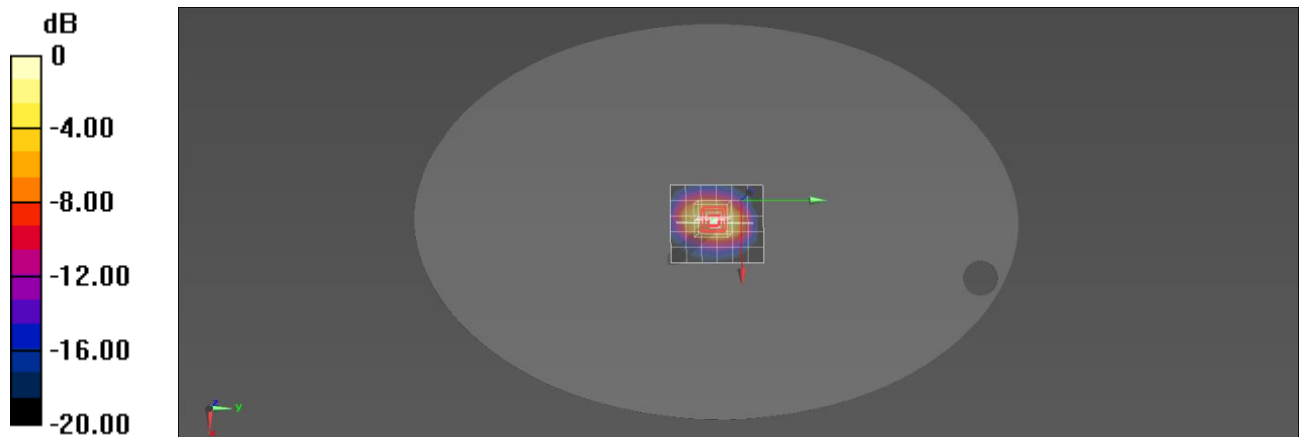
Configuration/d=10mm, Pin=250 mW, dist=4mm (EX-Probe) 2/Area Scan (6x7x1): Measurement grid: dx=15mm, dy=15mm; Maximum value of SAR (measured) = 8.63 W/kg

Configuration/d=10mm, Pin=250 mW, dist=4mm (EX-Probe) 2/Zoom Scan (7x7x7) (5x5x7)/Cube 0:

Measurement grid: dx=8mm, dy=8mm, dz=5mm; Reference Value = 98.35 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 15.6 W/kg

SAR(1 g) = 8.77 W/kg; SAR(10 g) = 4.72 W/kg Maximum value of SAR (measured) = 9.75 W/kg



0 dB = 9.75 W/kg = 9.89 dBW/kg

Test Date: 11/07/2020

SystemPerformanceCheck-SAM2-D1900HSL

DUT: Dipole 1900 MHz D1900V2; Type: D1900V2

Communication System: CW; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1900 \text{ MHz}$; $\sigma = 1.42 \text{ S/m}$; $\epsilon_r = 41.32$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7524; ConvF(8.1, 8.1, 8.1) @ 1900 MHz; Calibrated: 5/20/2020
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1552; Calibrated: 5/6/2020
- Phantom: SAM2; Type: QD OVA 004 AA; Serial: 2089
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

configuration/d=15mm, Pin=250mW, dist=4mm (EX-Probe)/Area Scan (6x11x1): Measurement grid:

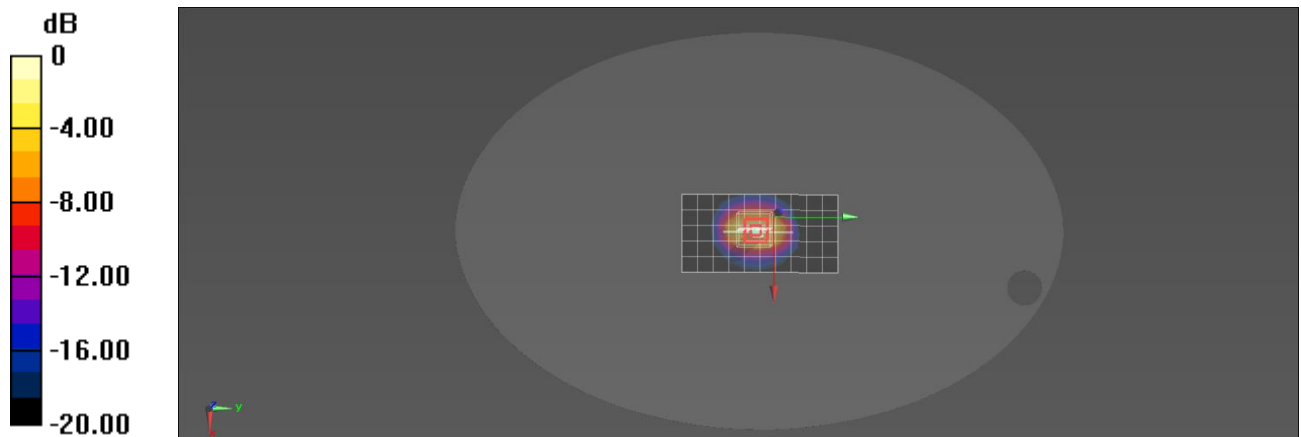
$dx=15\text{mm}$, $dy=15\text{mm}$; Maximum value of SAR (measured) = 9.63 W/kg

configuration/d=15mm, Pin=250mW, dist=4mm (EX-Probe)/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$; Reference Value = 99.65 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 17.9 W/kg

SAR(1 g) = 9.78 W/kg; SAR(10 g) = 5.14 W/kg Maximum value of SAR (measured) = 10.9 W/kg



0 dB = 10.9 W/kg = 10.37 dBW/kg

Test Date: 11/09/2020

SystemPerformanceCheck-SAM2-D1900HSL

DUT: Dipole 1900 MHz D1900V2; Type: D1900V2

Communication System: CW; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.41$ S/m; $\epsilon_r = 41.01$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7524; ConvF(8.1, 8.1, 8.1) @ 1900 MHz; Calibrated: 5/20/2020
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1552; Calibrated: 5/6/2020
- Phantom: SAM2; Type: QD OVA 004 AA; Serial: 2089
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

configuration/d=15mm, Pin=250mW, dist=4mm (EX-Probe)/Area Scan (6x11x1): Measurement grid:

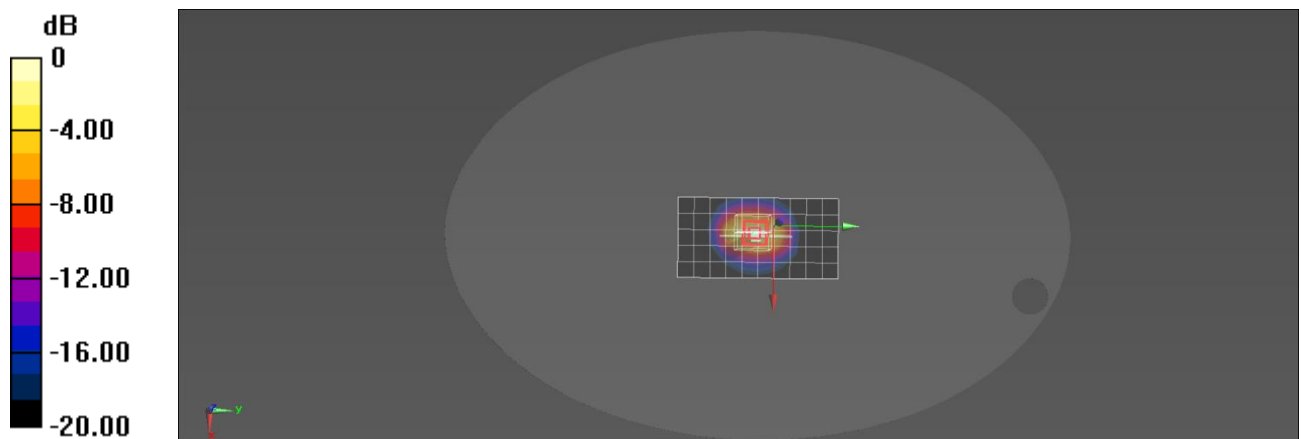
dx=15mm, dy=15mm; Maximum value of SAR (measured) = 10.2 W/kg

configuration/d=15mm, Pin=250mW, dist=4mm (EX-Probe)/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=8mm, dy=8mm, dz=5mm; Reference Value = 101.0 V/m; Power Drift = -0.10 dB

Peak SAR (extrapolated) = 17.9 W/kg

SAR(1 g) = 9.82 W/kg; SAR(10 g) = 5.16 W/kg Maximum value of SAR (measured) = 10.9 W/kg



0 dB = 10.9 W/kg = 10.37 dBW/kg

Test Date: 11/10/2020

SystemPerformanceCheck-SAM2-D2450HSL

DUT: Dipole 2450 MHz D2450V2; Type: D2450V2

Communication System: CW; Frequency: 2450 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2450$ MHz; $\sigma = 1.78$ S/m; $\epsilon_r = 41.08$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7524; ConvF(7.6, 7.6, 7.6) @ 2450 MHz; Calibrated: 5/20/2020
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1552; Calibrated: 5/6/2020
- Phantom: SAM2; Type: QD OVA 004 AA; Serial: 2089
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

configuration/d=10mm, Pin=250mW, dist=4mm (EX-Probe)/Area Scan (7x9x1): Measurement grid:

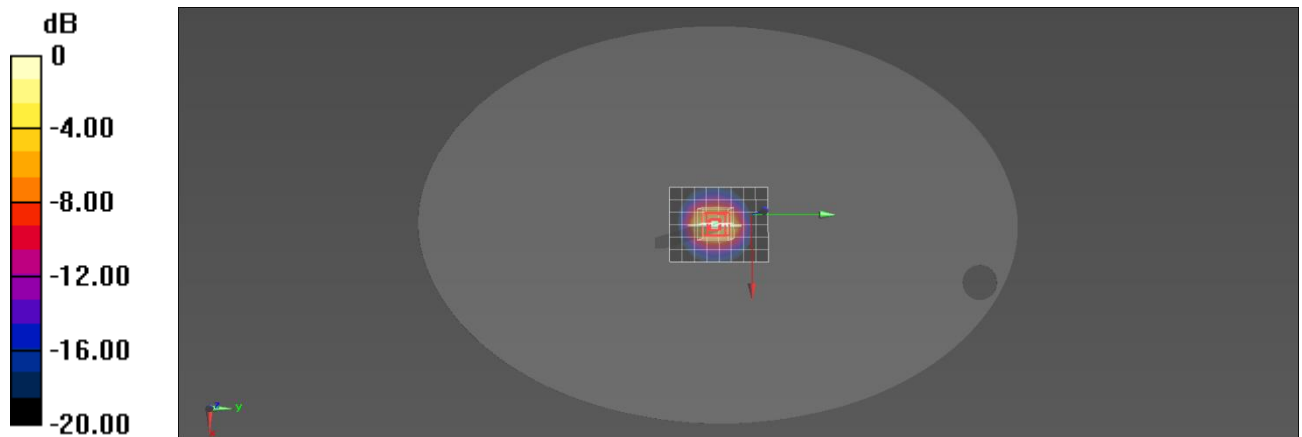
dx=12mm, dy=12mm; Maximum value of SAR (measured) = 13.3 W/kg

configuration/d=10mm, Pin=250mW, dist=4mm (EX-Probe)/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm; Reference Value = 100.6 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 24.8 W/kg

SAR(1 g) = 12.2 W/kg; SAR(10 g) = 5.78 W/kg Maximum value of SAR (measured) = 13.7 W/kg



0 dB = 13.7 W/kg = 11.37 dBW/kg

Test Date: 11/16/2020

SystemPerformanceCheck-SAM2-D2450HSL

DUT: Dipole 2450 MHz D2450V2; Type: D2450V2

Communication System: CW; Frequency: 2450 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2450$ MHz; $\sigma = 1.78$ S/m; $\epsilon_r = 39.35$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7524; ConvF(7.6, 7.6, 7.6) @ 2450 MHz; Calibrated: 5/20/2020
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1552; Calibrated: 5/6/2020
- Phantom: SAM2; Type: QD OVA 004 AA; Serial: 2089
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

configuration/d=10mm, Pin=250mW, dist=4mm (EX-Probe)/Area Scan (7x9x1): Measurement grid:

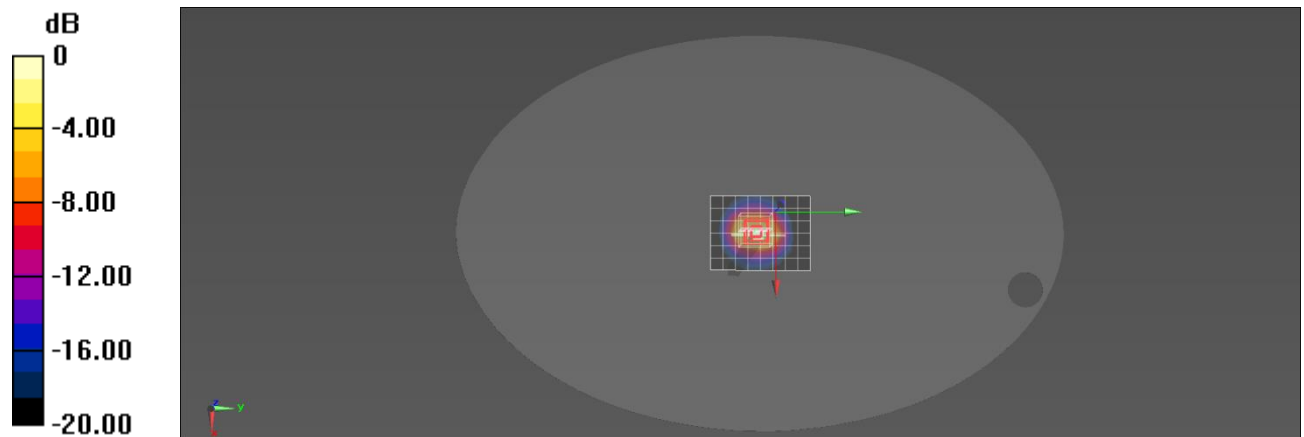
dx=12mm, dy=12mm; Maximum value of SAR (measured) = 14.1 W/kg

configuration/d=10mm, Pin=250mW, dist=4mm (EX-Probe)/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm; Reference Value = 103.8 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 26.6 W/kg

SAR(1 g) = 13 W/kg; SAR(10 g) = 6.12 W/kg Maximum value of SAR (measured) = 14.6 W/kg



0 dB = 14.6 W/kg = 11.64 dBW/kg

Test Date: 11/10/2020

SystemPerformanceCheck-SAM2-D2600HSL

DUT: Dipole 2600 MHz D2600V2; Type: D2600V2

Communication System: CW; Frequency: 2600 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2600$ MHz; $\sigma = 1.9$ S/m; $\epsilon_r = 40.82$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7524; ConvF(7.41, 7.41, 7.41) @ 2600 MHz; Calibrated: 5/20/2020
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1552; Calibrated: 5/6/2020
- Phantom: SAM2; Type: QD OVA 004 AA; Serial: 2089
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

configuration/d=10mm, Pin=250mW, dist=4mm (EX-Probe)/Area Scan (7x9x1): Measurement grid:

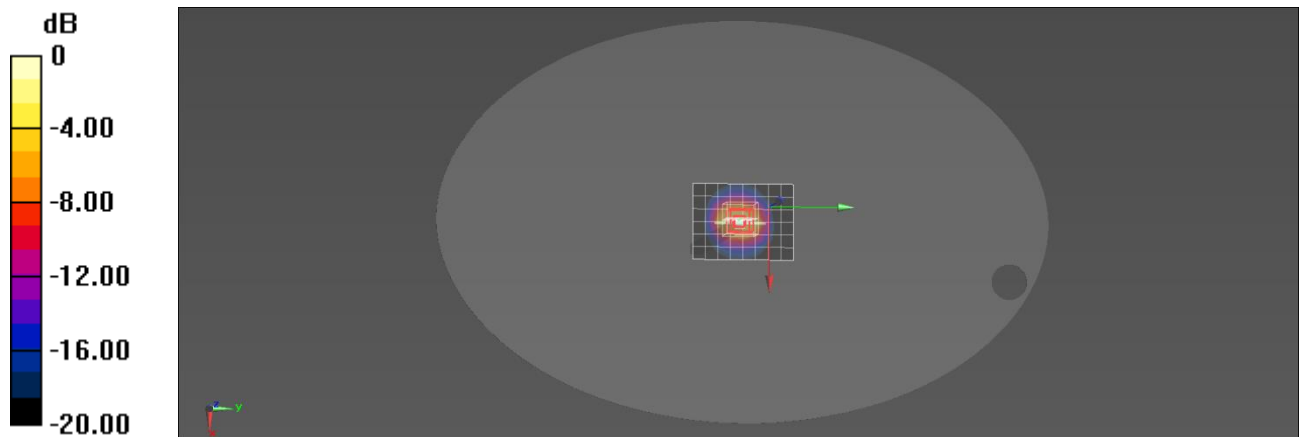
dx=12mm, dy=12mm; Maximum value of SAR (measured) = 14.7 W/kg

configuration/d=10mm, Pin=250mW, dist=4mm (EX-Probe)/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm; Reference Value = 103.3 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 28.4 W/kg

SAR(1 g) = 13.4 W/kg; SAR(10 g) = 6.09 W/kg Maximum value of SAR (measured) = 15.3 W/kg



0 dB = 15.3 W/kg = 11.85 dBW/kg

Test Date: 11/11/2020

SystemPerformanceCheck-SAM2-D2600HSL

DUT: Dipole 2600 MHz D2600V2; Type: D2600V2

Communication System: CW; Frequency: 2600 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2600$ MHz; $\sigma = 1.89$ S/m; $\epsilon_r = 39$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7524; ConvF(7.41, 7.41, 7.41) @ 2600 MHz; Calibrated: 5/20/2020
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1552; Calibrated: 5/6/2020
- Phantom: SAM2; Type: QD OVA 004 AA; Serial: 2089
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

configuration/d=10mm, Pin=250mW, dist=4mm (EX-Probe)/Area Scan (7x9x1): Measurement grid:

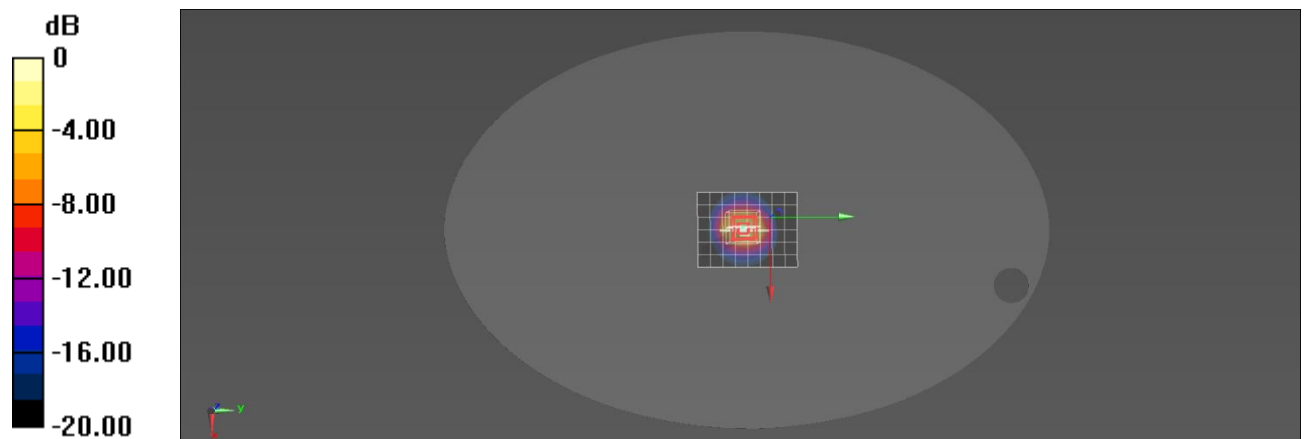
dx=12mm, dy=12mm; Maximum value of SAR (measured) = 14.4 W/kg

configuration/d=10mm, Pin=250mW, dist=4mm (EX-Probe)/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm; Reference Value = 102.2 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 28.7 W/kg

SAR(1 g) = 13.5 W/kg; SAR(10 g) = 6.09 W/kg Maximum value of SAR (measured) = 15.3 W/kg



0 dB = 15.3 W/kg = 11.85 dBW/kg

Test Date: 11/16/2020

SystemPerformanceCheck-SAM2-D5250HSL

DUT: Dipole D5GHzV2; Type: D5GHzV2

Communication System: CW; Frequency: 5250 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5250 \text{ MHz}$; $\sigma = 4.5 \text{ S/m}$; $\epsilon_r = 35.11$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7524; ConvF(5.15, 5.15, 5.15) @ 5250 MHz; Calibrated: 5/20/2020
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1552; Calibrated: 5/6/2020
- Phantom: SAM2; Type: QD OVA 004 AA; Serial: 2089
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Configuration/d=10mm, Pin=100 mW, dist=2mm (EX-Probe)/Area Scan (7x9x1): Measurement grid:

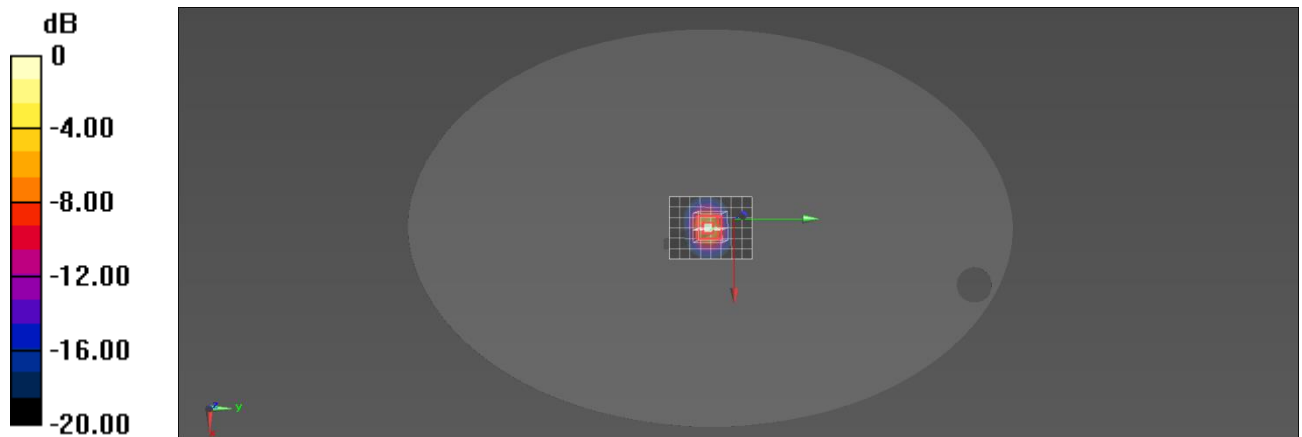
$dx=10\text{mm}$, $dy=10\text{mm}$; Maximum value of SAR (measured) = 15.6 W/kg

Configuration/d=10mm, Pin=100 mW, dist=2mm (EX-Probe)/Zoom Scan (8x8x8) (8x8x7)/Cube 0:

Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$; Reference Value = 63.32 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 33.7 W/kg

SAR(1 g) = 8.29 W/kg; SAR(10 g) = 2.37 W/kg Maximum value of SAR (measured) = 15.8 W/kg



0 dB = 15.8 W/kg = 11.99 dBW/kg

Test Date: 11/17/2020

SystemPerformanceCheck-SAM2-D5600HSL

DUT: Dipole D5GHzV2; Type: D5GHzV2

Communication System: CW; Frequency: 5600 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5600$ MHz; $\sigma = 4.89$ S/m; $\epsilon_r = 34.48$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7524; ConvF(4.77, 4.77, 4.77) @ 5600 MHz; Calibrated: 5/20/2020
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1552; Calibrated: 5/6/2020
- Phantom: SAM2; Type: QD OVA 004 AA; Serial: 2089
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Configuration/d=10mm, Pin=100mW, dist=2mm (EX-Probe)/Area Scan (7x9x1): Measurement grid:

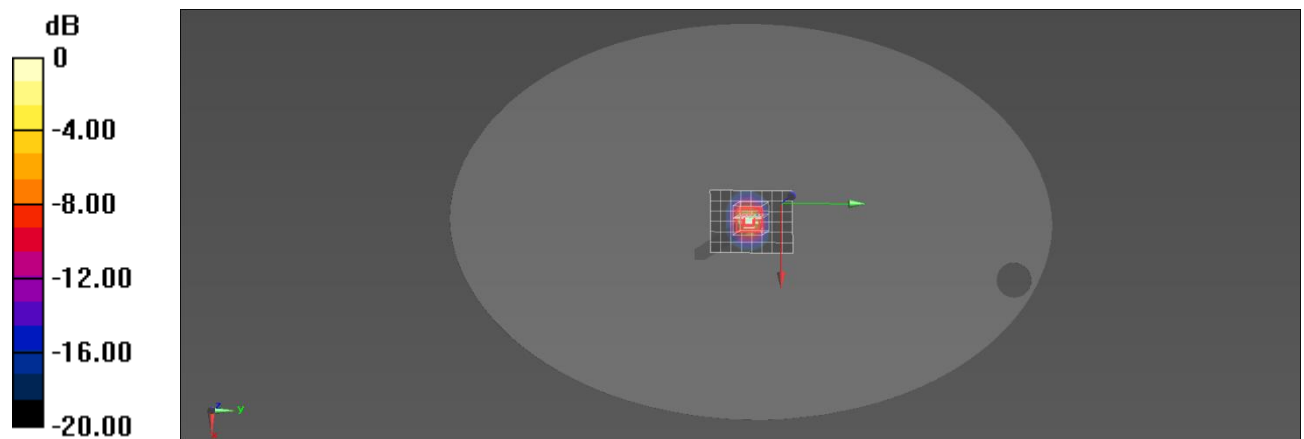
dx=10mm, dy=10mm; Maximum value of SAR (measured) = 16.1 W/kg

Configuration/d=10mm, Pin=100mW, dist=2mm (EX-Probe)/Zoom Scan (8x8x8) (8x8x7)/Cube 0:

Measurement grid: dx=4mm, dy=4mm, dz=2mm; Reference Value = 61.13 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 37.1 W/kg

SAR(1 g) = 8.57 W/kg; SAR(10 g) = 2.42 W/kg Maximum value of SAR (measured) = 17.1 W/kg



0 dB = 17.1 W/kg = 12.33 dBW/kg

Test Date: 11/17/2020

SystemPerformanceCheck-SAM2-D5750HSL

DUT: Dipole D5GHzV2; Type: D5GHzV2

Communication System: CW; Frequency: 5750 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5750 \text{ MHz}$; $\sigma = 5.06 \text{ S/m}$; $\epsilon_r = 34.21$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7524; ConvF(4.84, 4.84, 4.84) @ 5750 MHz; Calibrated: 5/20/2020
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1552; Calibrated: 5/6/2020
- Phantom: SAM2; Type: QD OVA 004 AA; Serial: 2089
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Configuration/d=10mm, Pin=100 mW, dist=2mm (EX-Probe)/Area Scan (7x9x1): Measurement grid:

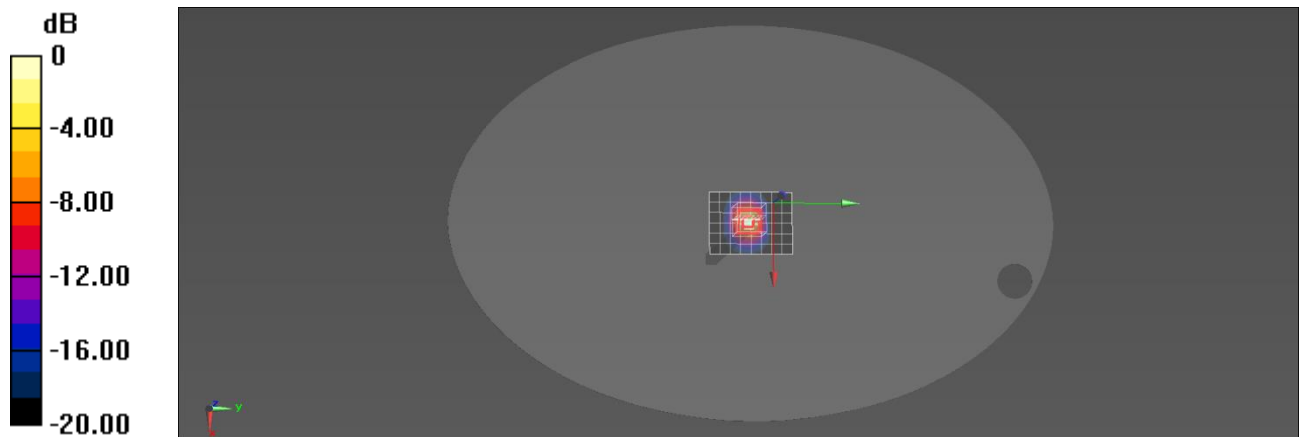
$dx=10\text{mm}$, $dy=10\text{mm}$; Maximum value of SAR (measured) = 14.3 W/kg

Configuration/d=10mm, Pin=100 mW, dist=2mm (EX-Probe)/Zoom Scan (8x8x8) (8x8x7)/Cube 0:

Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$; Reference Value = 56.68 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 35.5 W/kg

SAR(1 g) = 7.89 W/kg; SAR(10 g) = 2.23 W/kg Maximum value of SAR (measured) = 15.7 W/kg



0 dB = 15.7 W/kg = 11.96 dBW/kg

Annex B - Test Data Plots

Plot 1#

Test Date: 11/06/2020

DUT: Mobile Computer; Type: EDA61K-1
Procedure Name: GPRS850(2Slot) Low Body Front

Communication System: GPRS/EGPRS-2 Slot; Frequency: 824.2 MHz; Duty Cycle: 1:4.2

Medium parameters used: $f = 824.2$ MHz; $\sigma = 0.89$ S/m; $\epsilon_r = 43.43$; $\rho = 1000$ kg/m³; Tissue Temp (celsius)-22.5°C; Phantom section: Flat Section

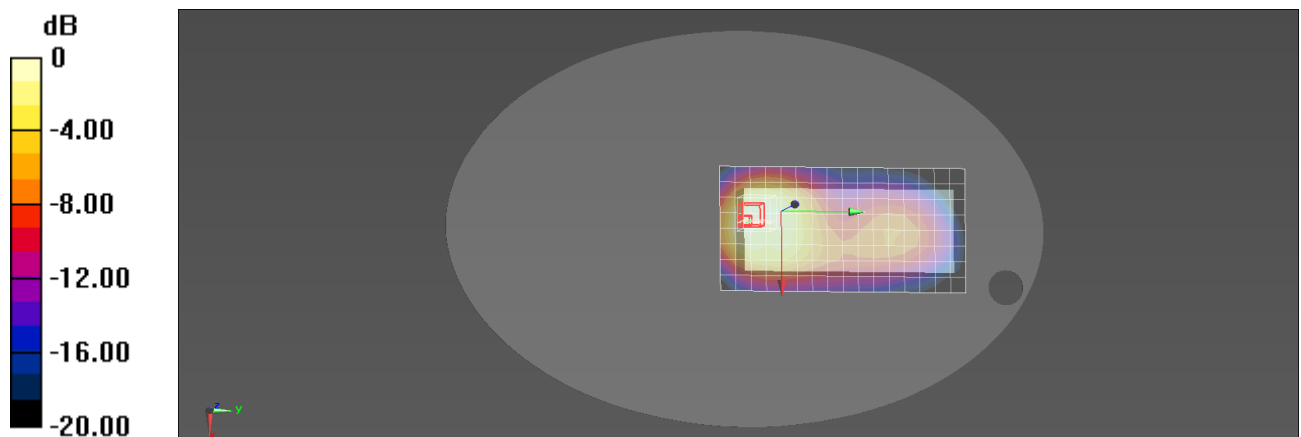
DASY5 Configuration:

- Probe: EX3DV4 - SN7524; ConvF(10.04, 10.04, 10.04) @ 824.2 MHz; Calibrated: 5/20/2020
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1552; Calibrated: 5/6/2020
- Phantom: SAM2; Type: QD OVA 004 AA; Serial: 2089
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Configuration/GPRS850(2Slot) Low Body Front/Area Scan (9x17x1): Measurement grid: dx=15mm, dy=15mm; Maximum value of SAR (measured) = 0.704 W/kg

Configuration/GPRS850(2Slot) Low Body Front/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm; Reference Value = 31.69 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 1.05 W/kg

SAR(1 g) = 0.662 W/kg; SAR(10 g) = 0.415 W/kg Maximum value of SAR (measured) = 0.724 W/kg


0 dB = 0.724 W/kg = -1.40 dBW/kg

Plot 2#

Test Date: 11/09/2020

DUT: Mobile Computer; Type: EDA61K-1
Procedure Name: GPRS1900(2Slot) Low Body Front

Communication System: GPRS/EGPRS-2 Slot; Frequency: 1850.2 MHz; Duty Cycle: 1:4.2

Medium parameters used: $f = 1850.2$ MHz; $\sigma = 1.38$ S/m; $\epsilon_r = 41.07$; $\rho = 1000$ kg/m³; Tissue Temp (celsius)-22.5°C; Phantom section: Flat Section

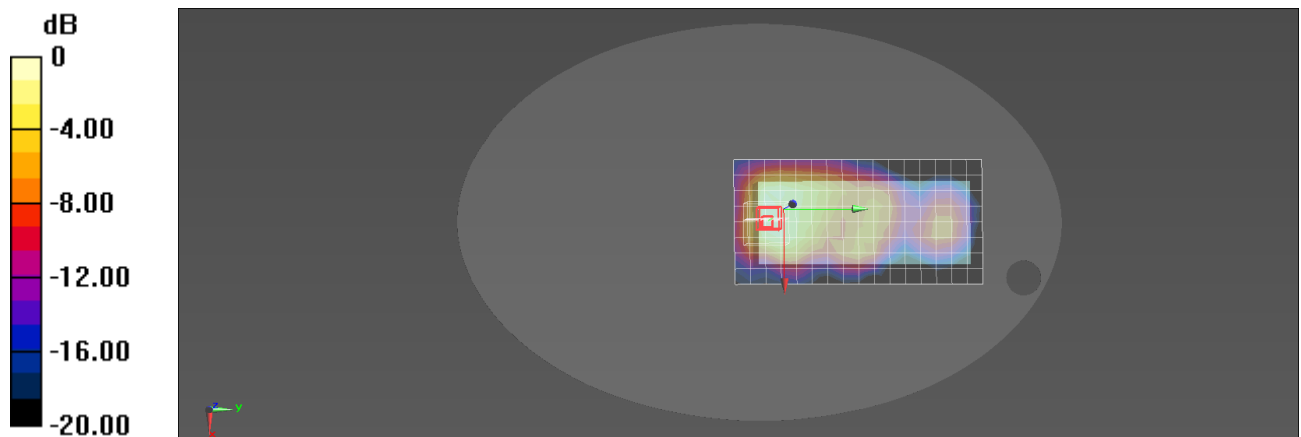
DASY5 Configuration:

- Probe: EX3DV4 - SN7524; ConvF(8.1, 8.1, 8.1) @ 1850.2 MHz; Calibrated: 5/20/2020
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1552; Calibrated: 5/6/2020
- Phantom: SAM2; Type: QD OVA 004 AA; Serial: 2089
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Configuration/GPRS1900(2Slot) Low Body Front/Area Scan (9x17x1): Measurement grid: dx=15mm, dy=15mm; Maximum value of SAR (measured) = 0.384 W/kg

Configuration/GPRS1900(2Slot) Low Body Front/Zoom Scan (6x6x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm; Reference Value = 17.57 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.533 W/kg

SAR(1 g) = 0.345 W/kg; SAR(10 g) = 0.198 W/kg Maximum value of SAR (measured) = 0.394 W/kg


0 dB = 0.394 W/kg = -4.05 dBW/kg

Plot 3#

Test Date: 11/07/2020

DUT: Mobile Computer; Type: EDA61K-1
Procedure Name: WCDMA Band 2 Low Body Front

Communication System: WCDMA; Frequency: 1852.4 MHz

Medium parameters used: $f = 1852.4$ MHz; $\sigma = 1.38$ S/m; $\epsilon_r = 41.37$; $\rho = 1000$ kg/m³; Tissue Temp (celsius)-22.5°C; Phantom section: Flat Section

DASY5 Configuration:

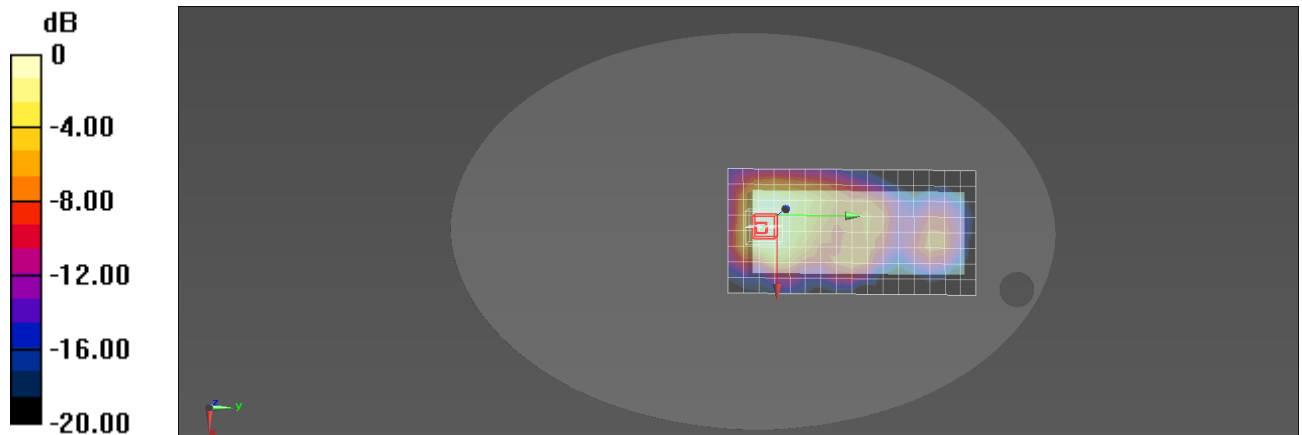
- Probe: EX3DV4 - SN7524; ConvF(8.1, 8.1, 8.1) @ 1852.4 MHz; Calibrated: 5/20/2020
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1552; Calibrated: 5/6/2020
- Phantom: SAM2; Type: QD OVA 004 AA; Serial: 2089
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Configuration/WCDMA Band 2 Low Body Front/Area Scan (9x17x1): Measurement grid: dx=15mm, dy=15mm; Maximum value of SAR (measured) = 0.680 W/kg

Configuration/WCDMA Band 2 Low Body Front/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

dx=8mm, dy=8mm, dz=5mm; Reference Value = 23.82 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 1.06 W/kg

SAR(1 g) = 0.638 W/kg; SAR(10 g) = 0.388 W/kg Maximum value of SAR (measured) = 0.693 W/kg


0 dB = 0.693 W/kg = -1.59 dBW/kg

Plot 4#

Test Date: 11/05/2020

DUT: Mobile Computer; Type: EDA61K-1
Procedure Name: WCDMA Band 4 High Body Front

Communication System: WCDMA; Frequency: 1752.6 MHz

Medium parameters used: $f = 1752.6$ MHz; $\sigma = 1.33$ S/m; $\epsilon_r = 41.7$; $\rho = 1000$ kg/m³; Tissue Temp (celsius)-22.5°C; Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7524; ConvF(8.5, 8.5, 8.5) @ 1752.6 MHz; Calibrated: 5/20/2020
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1552; Calibrated: 5/6/2020
- Phantom: SAM2; Type: QD OVA 004 AA; Serial: 2089
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Configuration/WCDMA Band 4 High Body Front/Area Scan (9x17x1): Measurement grid: dx=15mm, dy=15mm; Maximum value of SAR (measured) = 0.865 W/kg

Configuration/WCDMA Band 4 High Body Front/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

dx=8mm, dy=8mm, dz=5mm; Reference Value = 26.36 V/m; Power Drift = 0.03 dB

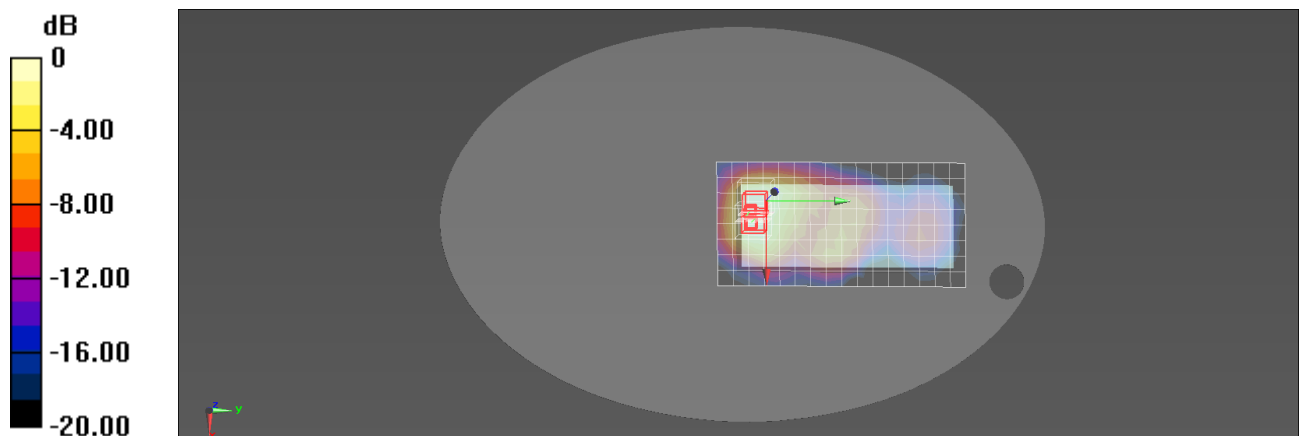
Peak SAR (extrapolated) = 1.28 W/kg

SAR(1 g) = 0.813 W/kg; SAR(10 g) = 0.500 W/kg; Maximum value of SAR (measured) = 0.889 W/kg

Configuration/WCDMA Band 4 High Body Front/Zoom Scan (5x5x7)/Cube 1: Measurement grid:

dx=8mm, dy=8mm, dz=5mm; Reference Value = 26.36 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 1.24 W/kg

SAR(1 g) = 0.751 W/kg; SAR(10 g) = 0.458 W/kg Maximum value of SAR (measured) = 0.830 W/kg


0 dB = 0.830 W/kg = -0.81 dBW/kg

Plot 5#

Test Date: 11/06/2020

DUT: Mobile Computer; Type: EDA61K-1
Procedure Name: WCDMA Band 5 Low Body Front

Communication System: WCDMA; Frequency: 826.4 MHz

Medium parameters used: $f = 826.4$ MHz; $\sigma = 0.89$ S/m; $\epsilon_r = 43.43$; $\rho = 1000$ kg/m³; Tissue Temp (celsius)-22.5°C; Phantom section: Flat Section

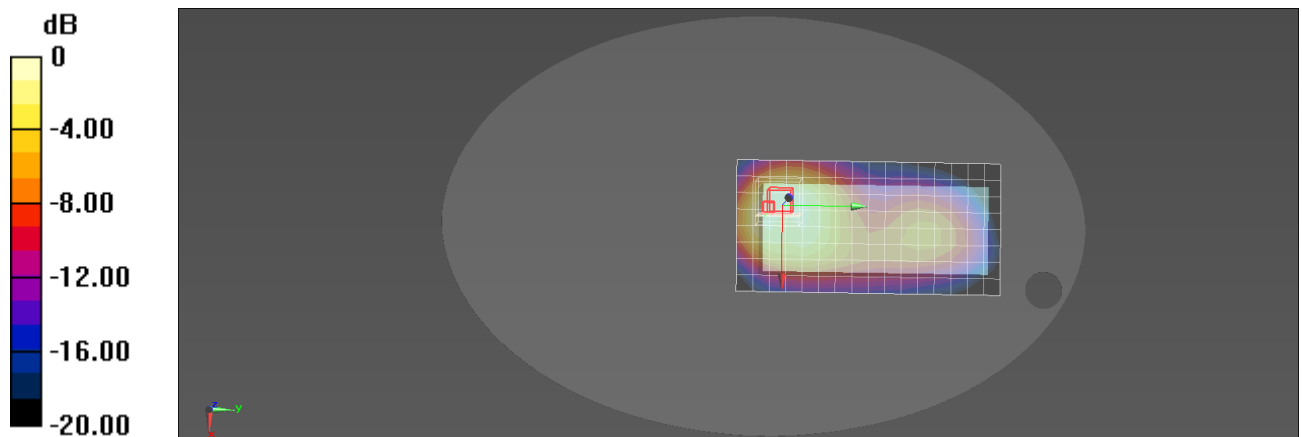
DASY5 Configuration:

- Probe: EX3DV4 - SN7524; ConvF(10.04, 10.04, 10.04) @ 826.4 MHz; Calibrated: 5/20/2020
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1552; Calibrated: 5/6/2020
- Phantom: SAM2; Type: QD OVA 004 AA; Serial: 2089
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Configuration/WCDMA Band 5 Low Body Front/Area Scan (9x17x1): Measurement grid: dx=15mm, dy=15mm; Maximum value of SAR (measured) = 0.731 W/kg

Configuration/WCDMA Band 5 Low Body Front/Zoom Scan (6x6x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm; Reference Value = 30.50 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 1.08 W/kg

SAR(1 g) = 0.669 W/kg; SAR(10 g) = 0.421 W/kg Maximum value of SAR (measured) = 0.722 W/kg


0 dB = 0.722 W/kg = -1.41 dBW/kg

Plot 6#

Test Date: 11/13/2020

DUT: Mobile Computer; Type: EDA61K-1
Procedure Name: CDMA BC0 SO32_RC3 Low Body Front

Communication System: CDMA; Frequency: 824.7 MHz

Medium parameters used: $f = 824.7$ MHz; $\sigma = 0.88$ S/m; $\epsilon_r = 42.61$; $\rho = 1000$ kg/m³; Tissue Temp (celsius)-22.5°C; Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7524; ConvF(10.04, 10.04, 10.04) @ 824.7 MHz; Calibrated: 5/20/2020
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1552; Calibrated: 5/6/2020
- Phantom: SAM2; Type: QD OVA 004 AA; Serial: 2089
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

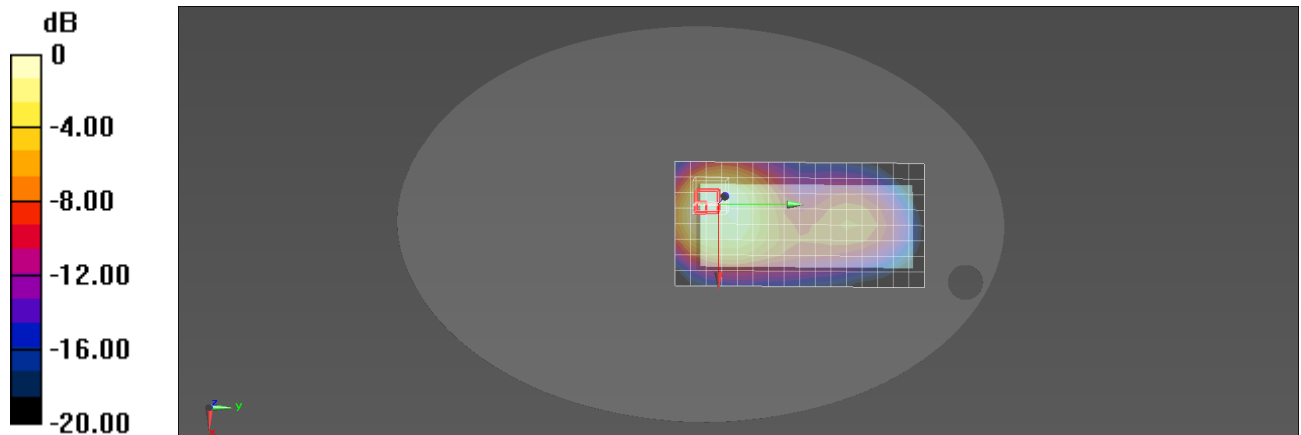
Configuration/CDMA BC0 SO32_RC3 Low Body Front/Area Scan (9x17x1): Measurement grid:

dx=15mm, dy=15mm; Maximum value of SAR (measured) = 0.669 W/kg

Configuration/CDMA BC0 SO32_RC3 Low Body Front/Zoom Scan (5x5x7)/Cube 0: Measurement

grid: dx=8mm, dy=8mm, dz=5mm; Reference Value = 30.78 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 1.09 W/kg

SAR(1 g) = 0.671 W/kg; SAR(10 g) = 0.415 W/kg Maximum value of SAR (measured) = 0.731 W/kg


0 dB = 0.731 W/kg = -1.36 dBW/kg

Plot 7#

Test Date: 11/07/2020

DUT: Mobile Computer; Type: EDA61K-1
Procedure Name: CDMA BC1 SO32_RC3 Low Body Front

Communication System: CDMA; Frequency: 1851.25 MHz

Medium parameters used: $f = 1851.25$ MHz; $\sigma = 1.38$ S/m; $\epsilon_r = 41.37$; $\rho = 1000$ kg/m³; Tissue Temp (celsius)-22.5°C; Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7524; ConvF(8.1, 8.1, 8.1) @ 1851.25 MHz; Calibrated: 5/20/2020
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1552; Calibrated: 5/6/2020
- Phantom: SAM2; Type: QD OVA 004 AA; Serial: 2089
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

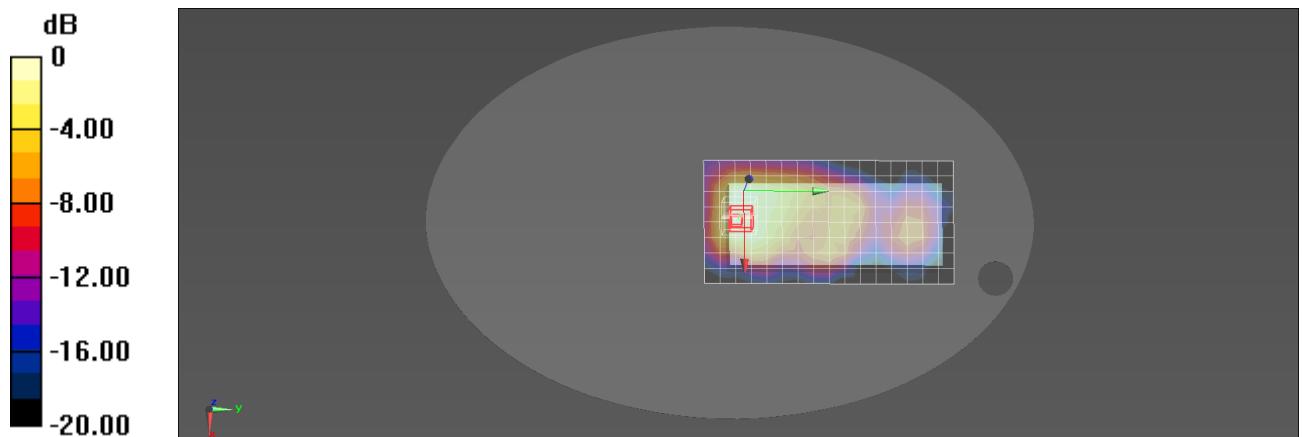
Configuration/CDMA BC1 SO32_RC3 Low Body Front/Area Scan (9x17x1): Measurement grid:

dx=15mm, dy=15mm; Maximum value of SAR (measured) = 0.631 W/kg

Configuration/CDMA BC1 SO32_RC3 Low Body Front/Zoom Scan (5x5x7)/Cube 0: Measurement

grid: dx=8mm, dy=8mm, dz=5mm; Reference Value = 23.00 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 0.972 W/kg

SAR(1 g) = 0.578 W/kg; SAR(10 g) = 0.352 W/kg Maximum value of SAR (measured) = 0.616 W/kg


0 dB = 0.616 W/kg = -2.10 dBW/kg

Plot 8#

Test Date: 11/05/2020

DUT: Mobile Computer; Type: EDA61K-1
Procedure Name: LTE Band 4 High QPSK_20M_1RB_OS99 Body Front

Communication System: LTE; Frequency: 1745 MHz

Medium parameters used: $f = 1745$ MHz; $\sigma = 1.33$ S/m; $\epsilon_r = 41.71$; $\rho = 1000$ kg/m³; Tissue Temp (celsius)-22.5°C; Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7524; ConvF(8.5, 8.5, 8.5) @ 1745 MHz; Calibrated: 5/20/2020
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1552; Calibrated: 5/6/2020
- Phantom: SAM2; Type: QD OVA 004 AA; Serial: 2089
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Configuration/LTE Band 4 High QPSK_20M_1RB_OS99 Body Front/Area Scan (9x17x1):

Measurement grid: dx=15mm, dy=15mm; Maximum value of SAR (measured) = 0.730 W/kg

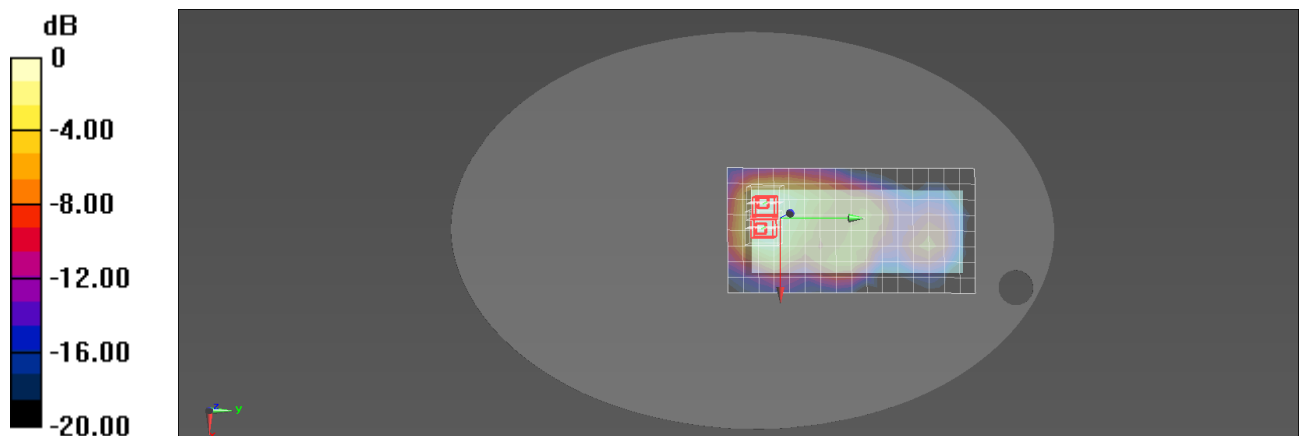
Configuration/LTE Band 4 High QPSK_20M_1RB_OS99 Body Front/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=8mm, dy=8mm, dz=5mm; Reference Value = 24.92 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 1.06 W/kg

SAR(1 g) = 0.677 W/kg; SAR(10 g) = 0.418 W/kg; Maximum value of SAR (measured) = 0.741 W/kg

Configuration/LTE Band 4 High QPSK_20M_1RB_OS99 Body Front/Zoom Scan (5x5x7)/Cube 1:

Measurement grid: dx=8mm, dy=8mm, dz=5mm; Reference Value = 24.92 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 1.11 W/kg

SAR(1 g) = 0.656 W/kg; SAR(10 g) = 0.397 W/kg Maximum value of SAR (measured) = 0.710 W/kg


0 dB = 0.710 W/kg = -1.49 dBW/kg

Plot 9#

Test Date: 11/13/2020

DUT: Mobile Computer; Type: EDA61K-1
Procedure Name: LTE Band 5 Mid QPSK_10M_1RB_OS49 Body Front

Communication System: LTE; Frequency: 836.5 MHz

Medium parameters used: $f = 836.5$ MHz; $\sigma = 0.88$ S/m; $\epsilon_r = 42.58$; $\rho = 1000$ kg/m³; Tissue Temp (celsius)-22.5°C; Phantom section: Flat Section

DASY5 Configuration:

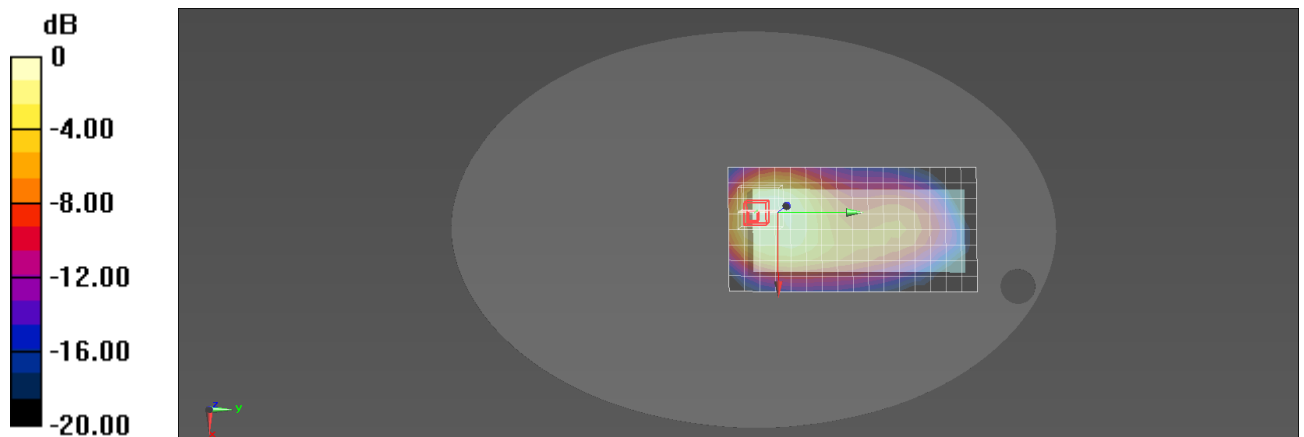
- Probe: EX3DV4 - SN7524; ConvF(10.04, 10.04, 10.04) @ 836.5 MHz; Calibrated: 5/20/2020
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1552; Calibrated: 5/6/2020
- Phantom: SAM2; Type: QD OVA 004 AA; Serial: 2089
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Configuration/LTE Band 5 Mid QPSK_10M_1RB_OS49 Body Front/Area Scan (9x17x1):

Measurement grid: dx=15mm, dy=15mm; Maximum value of SAR (measured) = 0.538 W/kg

Configuration/LTE Band 5 Mid QPSK_10M_1RB_OS49 Body Front/Zoom Scan (6x6x7)/Cube 0:

Measurement grid: dx=8mm, dy=8mm, dz=5mm; Reference Value = 27.61 V/m; Power Drift = 0.16 dB
Peak SAR (extrapolated) = 0.885 W/kg

SAR(1 g) = 0.547 W/kg; SAR(10 g) = 0.337 W/kg Maximum value of SAR (measured) = 0.595 W/kg


0 dB = 0.595 W/kg = -2.25 dBW/kg

Plot 10#

Test Date: 11/11/2020

DUT: Mobile Computer; Type: EDA61K-1
Procedure Name: LTE Band 7 High QPSK_20M_1RB_OS49 Body Font

Communication System: LTE; Frequency: 2560 MHz

Medium parameters used: $f = 2560$ MHz; $\sigma = 1.86$ S/m; $\epsilon_r = 39.06$; $\rho = 1000$ kg/m³; Tissue Temp (celsius)-22.5°C; Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7524; ConvF(7.41, 7.41, 7.41) @ 2560 MHz; Calibrated: 5/20/2020
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1552; Calibrated: 5/6/2020
- Phantom: SAM2; Type: QD OVA 004 AA; Serial: 2089
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Configuration/LTE Band 7 High QPSK_20M_1RB_OS49 Body Font/Area Scan (11x21x1):

Measurement grid: dx=12mm, dy=12mm; Maximum value of SAR (measured) = 0.998 W/kg

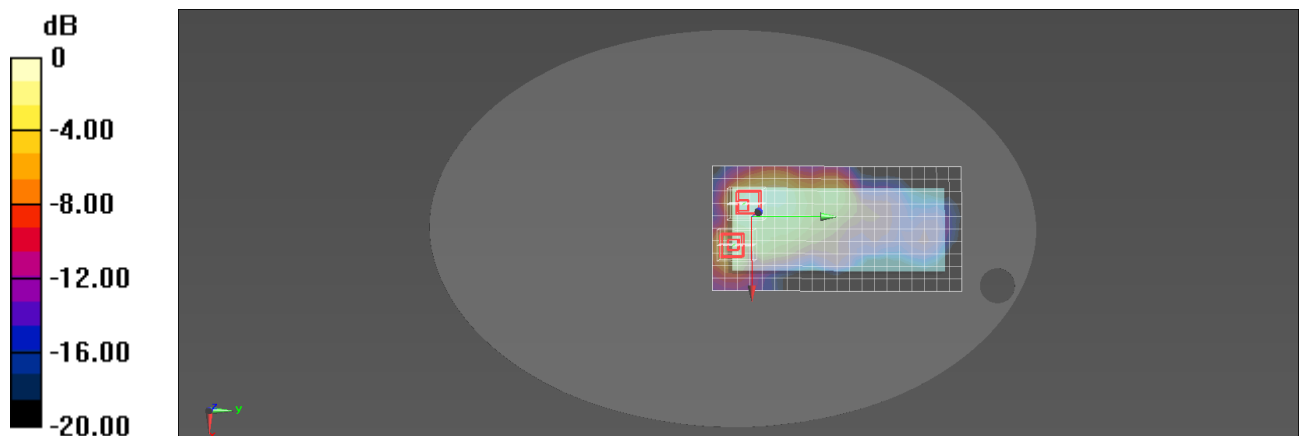
Configuration/LTE Band 7 High QPSK_20M_1RB_OS49 Body Font/Zoom Scan (7x8x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm; Reference Value = 15.12 V/m; Power Drift = -0.10 dB
Peak SAR (extrapolated) = 2.20 W/kg

SAR(1 g) = 1.02 W/kg; SAR(10 g) = 0.499 W/kg Maximum value of SAR (measured) = 1.17 W/kg

Configuration/LTE Band 7 High QPSK_20M_1RB_OS49 Body Font/Zoom Scan (7x8x7)/Cube 1:

Measurement grid: dx=5mm, dy=5mm, dz=5mm; Reference Value = 15.12 V/m; Power Drift = -0.10 dB
Peak SAR (extrapolated) = 1.75 W/kg

SAR(1 g) = 0.789 W/kg; SAR(10 g) = 0.344 W/kg Maximum value of SAR (measured) = 0.903 W/kg


0 dB = 0.903 W/kg = -0.44 dBW/kg

Plot 11#

Test Date: 11/14/2020

DUT: Mobile Computer; Type: EDA61K-1
Procedure Name: LTE Band 12 High QPSK_10M_1RB_OS24 Body Front

Communication System: LTE; Frequency: 711 MHz

Medium parameters used: $f = 711 \text{ MHz}$; $\sigma = 0.86 \text{ S/m}$; $\epsilon_r = 44$; $\rho = 1000 \text{ kg/m}^3$; Tissue Temp (celsius)-
22.5°C; Phantom section: Flat Section

DASY5 Configuration:

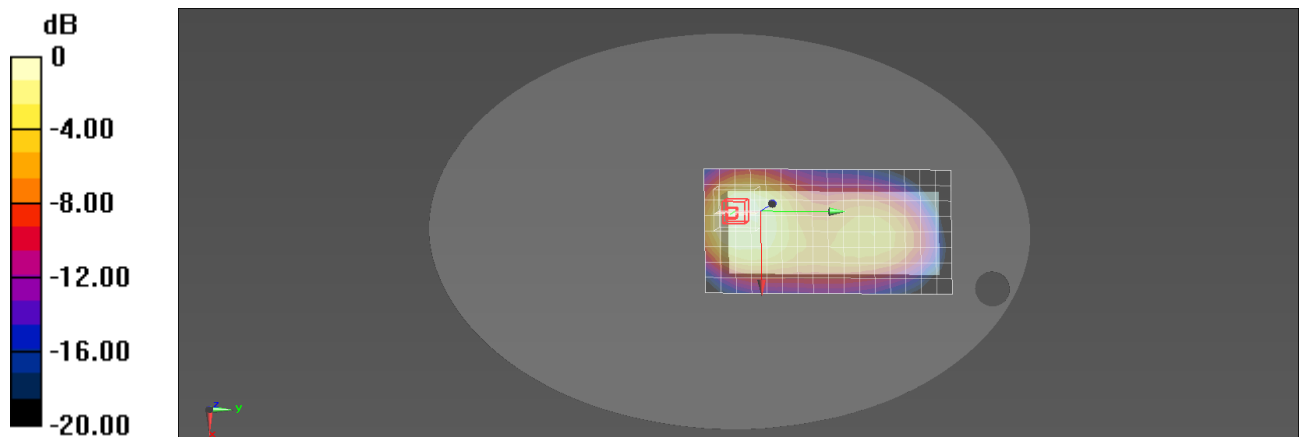
- Probe: EX3DV4 - SN7524; ConvF(10.41, 10.41, 10.41) @ 711 MHz; Calibrated: 5/20/2020
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1552; Calibrated: 5/6/2020
- Phantom: SAM2; Type: QD OVA 004 AA; Serial: 2089
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Configuration/LTE Band 12 High QPSK_10M_1RB_OS24 Body Front/Area Scan (9x17x1):

Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$; Maximum value of SAR (measured) = 0.487 W/kg

Configuration/LTE Band 12 High QPSK_10M_1RB_OS24 Body Front/Zoom Scan (6x6x7)/Cube 0:

Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$; Reference Value = 26.38 V/m; Power Drift = 0.05 dB
Peak SAR (extrapolated) = 0.798 W/kg

SAR(1 g) = 0.482 W/kg; SAR(10 g) = 0.299 W/kg Maximum value of SAR (measured) = 0.526 W/kg


0 dB = 0.526 W/kg = -2.79 dBW/kg

Plot 12#

Test Date: 11/14/2020

DUT: Mobile Computer; Type: EDA61K-1
Procedure Name: LTE Band 13 Mid QPSK_10M_1RB_OS49 Body Front

Communication System: LTE; Frequency: 782 MHz

Medium parameters used: $f = 782 \text{ MHz}$; $\sigma = 0.88 \text{ S/m}$; $\epsilon_r = 43.74$; $\rho = 1000 \text{ kg/m}^3$; Tissue Temp (celsius)-22.5°C; Phantom section: Flat Section

DASY5 Configuration:

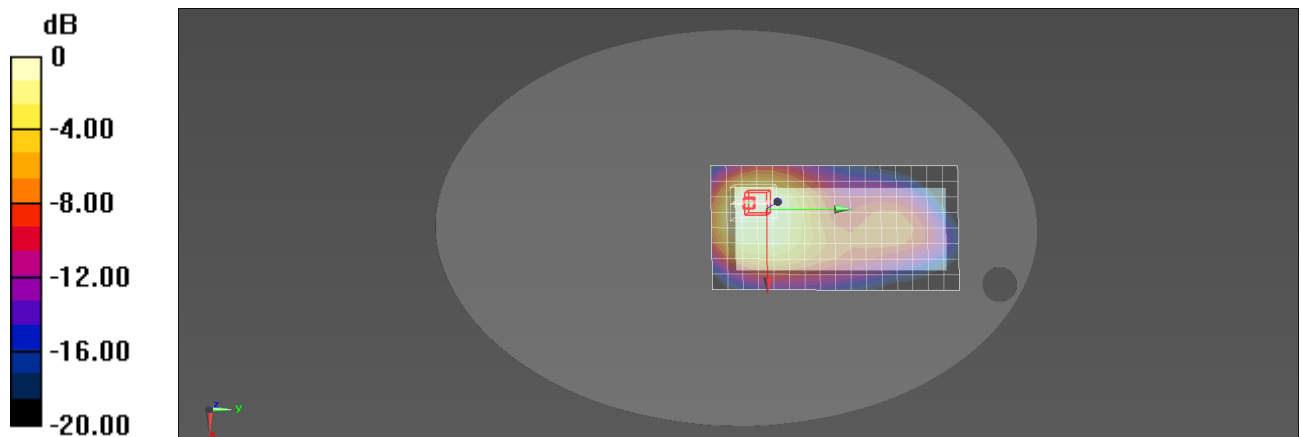
- Probe: EX3DV4 - SN7524; ConvF(10.41, 10.41, 10.41) @ 782 MHz; Calibrated: 5/20/2020
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1552; Calibrated: 5/6/2020
- Phantom: SAM2; Type: QD OVA 004 AA; Serial: 2089
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Configuration/LTE Band 13 Mid QPSK_10M_1RB_OS49 Body Front/Area Scan (9x17x1):

Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$; Maximum value of SAR (measured) = 0.696 W/kg

Configuration/LTE Band 13 Mid QPSK_10M_1RB_OS49 Body Front/Zoom Scan (5x6x7)/Cube 0:

Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$; Reference Value = 30.27 V/m; Power Drift = 0.19 dB
Peak SAR (extrapolated) = 1.12 W/kg

SAR(1 g) = 0.681 W/kg; SAR(10 g) = 0.430 W/kg Maximum value of SAR (measured) = 0.734 W/kg


0 dB = 0.734 W/kg = -1.34 dBW/kg

Plot 13#

Test Date: 11/09/2020

DUT: Mobile Computer; Type: EDA61K-1
Procedure Name: LTE Band 25 Low QPSK_20M_1RB_OS0 Body Back

Communication System: LTE; Frequency: 1860 MHz

Medium parameters used: $f = 1860$ MHz; $\sigma = 1.38$ S/m; $\epsilon_r = 41.06$; $\rho = 1000$ kg/m³; Tissue Temp (celsius)-22.5°C; Phantom section: Flat Section

DASY5 Configuration:

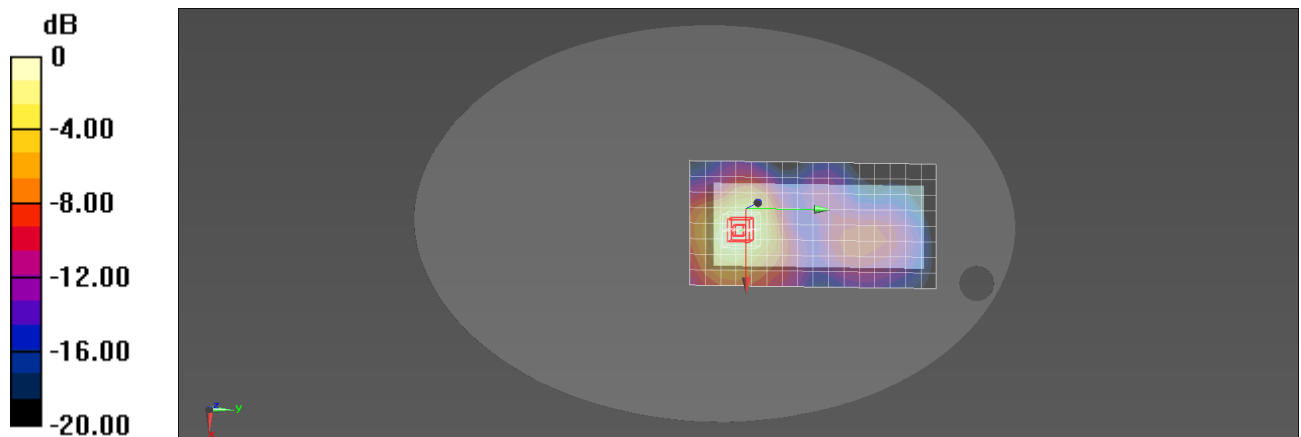
- Probe: EX3DV4 - SN7524; ConvF(8.1, 8.1, 8.1) @ 1860 MHz; Calibrated: 5/20/2020
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1552; Calibrated: 5/6/2020
- Phantom: SAM2; Type: QD OVA 004 AA; Serial: 2089
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Configuration/LTE Band 25 Low QPSK_20M_1RB_OS0 Body Back/Area Scan (9x17x1):

Measurement grid: dx=15mm, dy=15mm; Maximum value of SAR (measured) = 0.578 W/kg

Configuration/LTE Band 25 Low QPSK_20M_1RB_OS0 Body Back/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=8mm, dy=8mm, dz=5mm; Reference Value = 16.82 V/m; Power Drift = -0.05 dB
Peak SAR (extrapolated) = 0.925 W/kg

SAR(1 g) = 0.599 W/kg; SAR(10 g) = 0.372 W/kg Maximum value of SAR (measured) = 0.646 W/kg


0 dB = 0.646 W/kg = -1.90 dBW/kg

Plot 14#

Test Date: 11/10/2020

DUT: Mobile Computer; Type: EDA61K-1
Procedure Name: LTE Band 41 Low-Mid QPSK_20M_1RB_OS49 Body Front

Communication System: LTE; Frequency: 2549.5 MHz

Medium parameters used: $f = 2550$ MHz; $\sigma = 1.86$ S/m; $\epsilon_r = 40.92$; $\rho = 1000$ kg/m³; Tissue Temp (celsius)-22.5°C; Phantom section: Flat Section

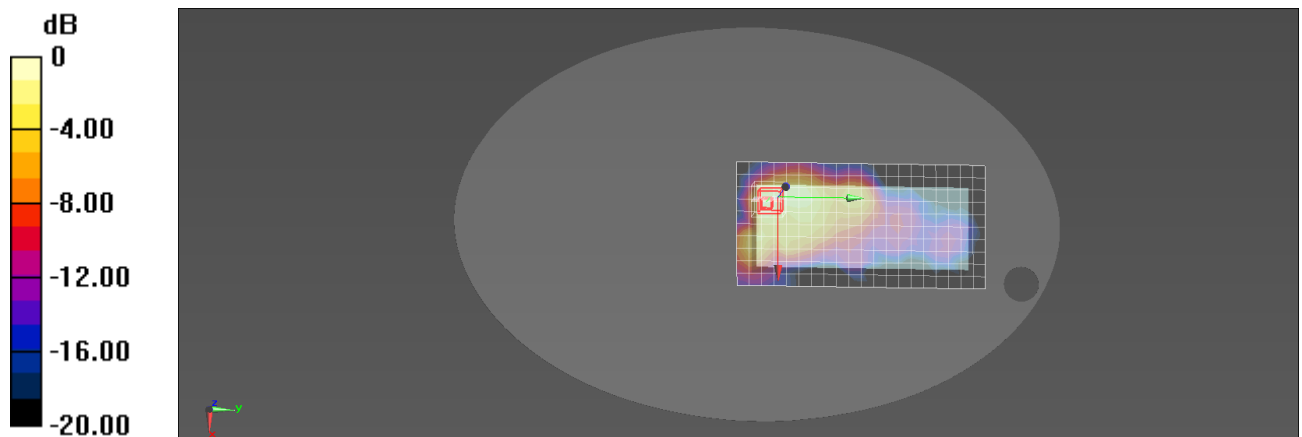
DASY5 Configuration:

- Probe: EX3DV4 - SN7524; ConvF(7.6, 7.6, 7.6) @ 2549.5 MHz; Calibrated: 5/20/2020
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1552; Calibrated: 5/6/2020
- Phantom: SAM2; Type: QD OVA 004 AA; Serial: 2089
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Configuration/LTE Band 41 Low-Mid QPSK_20M_1RB_OS49 Body Front/Area Scan (11x21x1):

Measurement grid: dx=12mm, dy=12mm; Maximum value of SAR (measured) = 0.367 W/kg

Configuration/LTE Band 41 Low-Mid QPSK_20M_1RB_OS49 Body Front/Zoom Scan (7x7x7)/Cube
0: Measurement grid: dx=5mm, dy=5mm, dz=5mm; Reference Value = 8.901 V/m; Power Drift = 0.15 dB
Peak SAR (extrapolated) = 0.792 W/kg

SAR(1 g) = 0.369 W/kg; SAR(10 g) = 0.178 W/kg Maximum value of SAR (measured) = 0.413 W/kg


0 dB = 0.413 W/kg = -3.84 dBW/kg

Plot 15#

Test Date: 11/16/2020

DUT: Mobile Computer; Type: EDA61K-1
Procedure Name: 802.11b 2462MHz Body Back

Communication System: 802.11b; Frequency: 2462 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2462$ MHz; $\sigma = 1.79$ S/m; $\epsilon_r = 39.33$; $\rho = 1000$ kg/m³; Tissue Temp (celsius)-22.5°C; Phantom section: Flat Section

DASY5 Configuration:

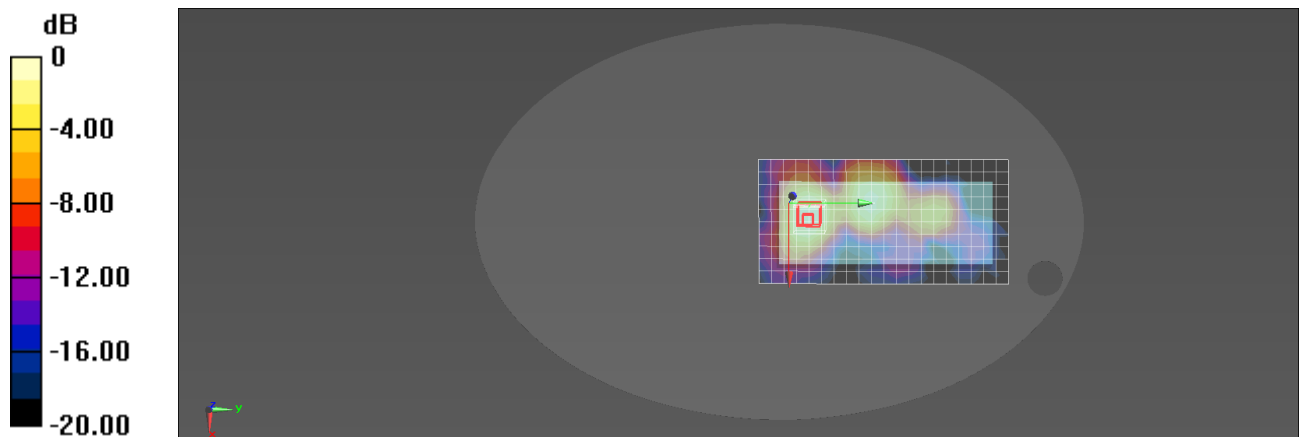
- Probe: EX3DV4 - SN7524; ConvF(7.6, 7.6, 7.6) @ 2462 MHz; Calibrated: 5/20/2020
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1552; Calibrated: 5/6/2020
- Phantom: SAM2; Type: QD OVA 004 AA; Serial: 2089
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Configuration/802.11b 2462MHz Body Back/Area Scan (11x21x1): Measurement grid: dx=12mm, dy=12mm; Maximum value of SAR (measured) = 0.113 W/kg

Configuration/802.11b 2462MHz Body Back/Zoom Scan (7x7x7)/Cube 0: Measurement grid:

dx=5mm, dy=5mm, dz=5mm; Reference Value = 3.666 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 0.178 W/kg

SAR(1 g) = 0.100 W/kg; SAR(10 g) = 0.057 W/kg Maximum value of SAR (measured) = 0.112 W/kg


0 dB = 0.112 W/kg = -9.51 dBW/kg

Plot 16#

Test Date: 11/16/2020

DUT: Mobile Computer; Type: EDA61K-1
Procedure Name: 802.11a 5320MHz Body Back

Communication System: 802.11a; Frequency: 5320 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5320$ MHz; $\sigma = 4.58$ S/m; $\epsilon_r = 34.98$; $\rho = 1000$ kg/m³; Tissue Temp (celsius)-22.5°C; Phantom section: Flat Section

DASY5 Configuration:

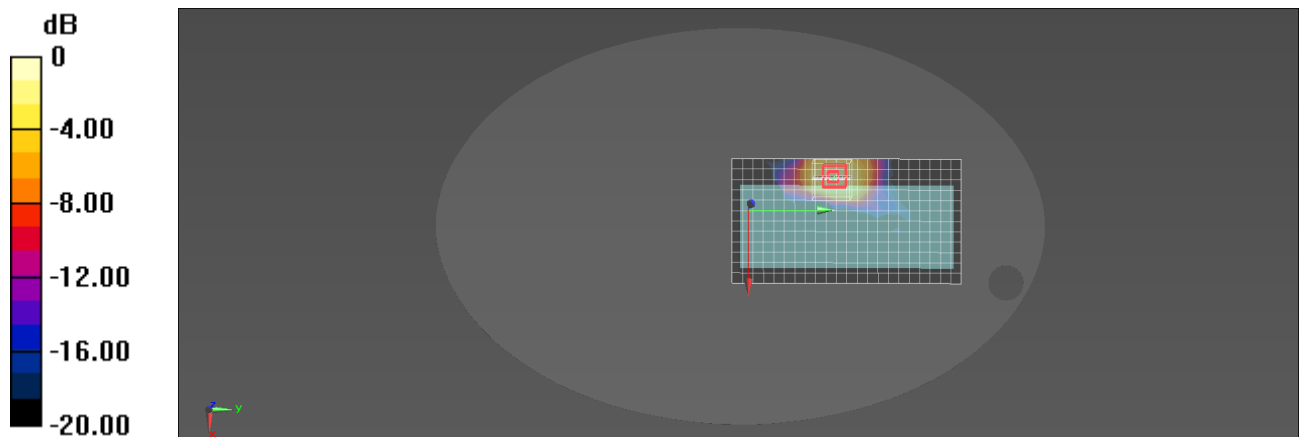
- Probe: EX3DV4 - SN7524; ConvF(5.15, 5.15, 5.15) @ 5320 MHz; Calibrated: 5/20/2020
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1552; Calibrated: 5/6/2020
- Phantom: SAM2; Type: QD OVA 004 AA; Serial: 2089
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Configuration/802.11a 5320MHz Body Back/Area Scan (13x23x1): Measurement grid: dx=10mm, dy=10mm; Maximum value of SAR (measured) = 0.196 W/kg

Configuration/802.11a 5320MHz Body Back/Zoom Scan (10x10x7)/Cube 0: Measurement grid:

dx=4mm, dy=4mm, dz=2mm; Reference Value = 0.916 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 0.364 W/kg

SAR(1 g) = 0.111 W/kg; SAR(10 g) = 0.046 W/kg Maximum value of SAR (measured) = 0.214 W/kg


0 dB = 0.214 W/kg = -6.70 dBW/kg

Plot 17#

Test Date: 11/17/2020

DUT: Mobile Computer; Type: EDA61K-1
Procedure Name: 802.11a 5720MHz Body Back

Communication System: 802.11a; Frequency: 5720 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5720$ MHz; $\sigma = 5.03$ S/m; $\epsilon_r = 34.27$; $\rho = 1000$ kg/m³; Tissue Temp (celsius)-22.5°C; Phantom section: Flat Section

DASY5 Configuration:

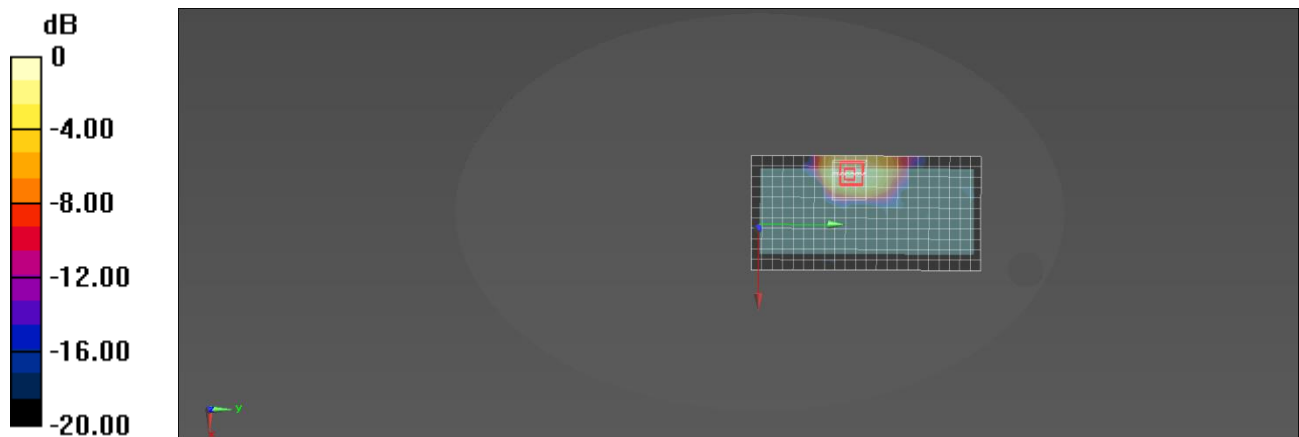
- Probe: EX3DV4 - SN7524; ConvF(4.84, 4.84, 4.84) @ 5720 MHz; Calibrated: 5/20/2020
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1552; Calibrated: 5/6/2020
- Phantom: SAM2; Type: QD OVA 004 AA; Serial: 2089
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Configuration/802.11a 5720MHz Body Back/Area Scan (12x23x1): Measurement grid: dx=10mm, dy=10mm; Maximum value of SAR (measured) = 0.278 W/kg

Configuration/802.11a 5720MHz Body Back/Zoom Scan (10x9x7)/Cube 0: Measurement grid:

dx=4mm, dy=4mm, dz=2mm; Reference Value = 0.358 V/m; Power Drift = -0.17 dB

Peak SAR (extrapolated) = 0.496 W/kg

SAR(1 g) = 0.142 W/kg; SAR(10 g) = 0.060 W/kg Maximum value of SAR (measured) = 0.277 W/kg


0 dB = 0.277 W/kg = -5.58 dBW/kg

Plot 18#

Test Date: 11/17/2020

DUT: Mobile Computer; Type: EDA61K-1
Procedure Name: 802.11a 5745MHz Body Back

Communication System: 802.11a; Frequency: 5745 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5745$ MHz; $\sigma = 5.06$ S/m; $\epsilon_r = 34.22$; $\rho = 1000$ kg/m³; Tissue Temp (celsius)-22.5°C; Phantom section: Flat Section

DASY5 Configuration:

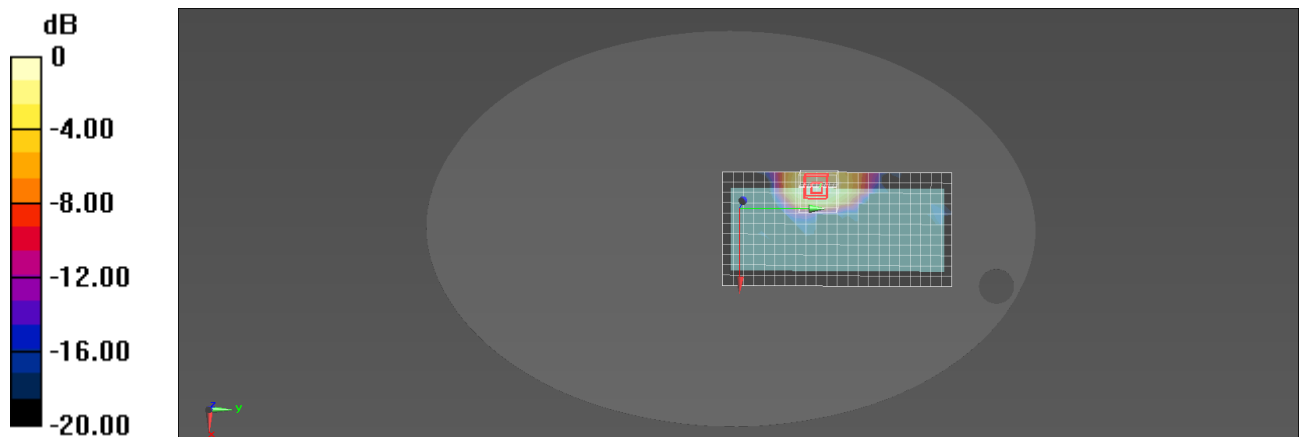
- Probe: EX3DV4 - SN7524; ConvF(4.84, 4.84, 4.84) @ 5745 MHz; Calibrated: 5/20/2020
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1552; Calibrated: 5/6/2020
- Phantom: SAM2; Type: QD OVA 004 AA; Serial: 2089
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Configuration/802.11a 5745MHz Body Back/Area Scan (12x23x1): Measurement grid: dx=10mm, dy=10mm; Maximum value of SAR (measured) = 0.246 W/kg

Configuration/802.11a 5745MHz Body Back/Zoom Scan (10x10x7)/Cube 0: Measurement grid:

dx=4mm, dy=4mm, dz=2mm; Reference Value = 0.8530 V/m; Power Drift = -0.18 dB

Peak SAR (extrapolated) = 0.697 W/kg

SAR(1 g) = 0.127 W/kg; SAR(10 g) = 0.053 W/kg Maximum value of SAR (measured) = 0.253 W/kg


0 dB = 0.253 W/kg = -5.97 dBW/kg

Plot 19#

Test Date: 11/06/2020

DUT: Mobile Computer; Type: EDA61K-1**Procedure Name: GPRS850(2Slot) High Extremity Front**

Communication System: GPRS/EGPRS-2 Slot; Frequency: 848.8 MHz; Duty Cycle: 1:4.2

Medium parameters used: $f = 848.8$ MHz; $\sigma = 0.9$ S/m; $\epsilon_r = 43.38$; $\rho = 1000$ kg/m³; Tissue Temp (celsius)-22.5°C; Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7524; ConvF(10.04, 10.04, 10.04) @ 848.8 MHz; Calibrated: 5/20/2020
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1552; Calibrated: 5/6/2020
- Phantom: SAM2; Type: QD OVA 004 AA; Serial: 2089
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

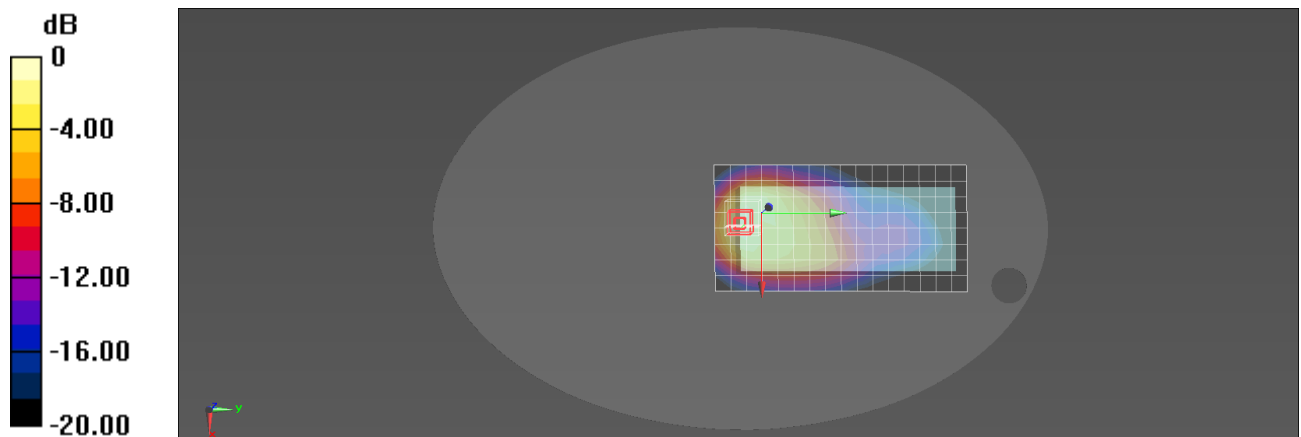
Configuration/GPRS850(2Slot) High Extremity Front/Area Scan (9x17x1): Measurement grid:

dx=15mm, dy=15mm; Maximum value of SAR (measured) = 1.20 W/kg

Configuration/GPRS850(2Slot) High Extremity Front/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

dx=8mm, dy=8mm, dz=5mm; Reference Value = 44.42 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 1.98 W/kg

SAR(1 g) = 1.21 W/kg; SAR(10 g) = 0.721 W/kg Maximum value of SAR (measured) = 1.34 W/kg

0 dB = 1.34 W/kg = 1.27 dBW/kg

Plot 20#

Test Date: 11/09/2020

DUT: Mobile Computer; Type: EDA61K-1**Procedure Name: GPRS1900(2Slot) Low Extremity Top**

Communication System: GPRS/EGPRS-2 Slot; Frequency: 1850.2 MHz; Duty Cycle: 1:4.2

Medium parameters used: $f = 1850.2$ MHz; $\sigma = 1.38$ S/m; $\epsilon_r = 41.07$; $\rho = 1000$ kg/m³; Tissue Temp (celsius)-22.5°C; Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7524; ConvF(8.1, 8.1, 8.1) @ 1850.2 MHz; Calibrated: 5/20/2020
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1552; Calibrated: 5/6/2020
- Phantom: SAM2; Type: QD OVA 004 AA; Serial: 2089
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

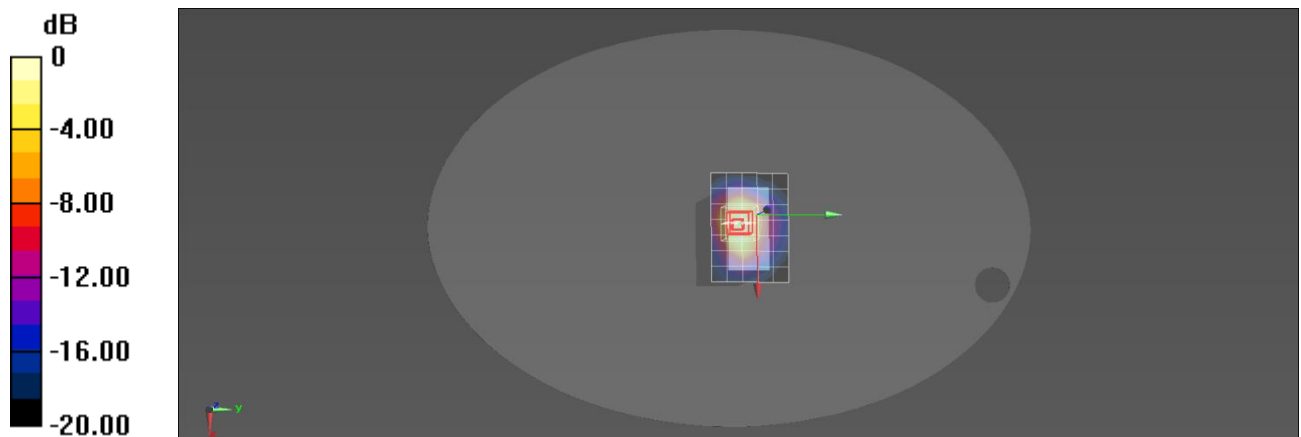
Configuration/GPRS1900(2Slot) Low Extremity Top/Area Scan (8x6x1): Measurement grid:

dx=15mm, dy=15mm; Maximum value of SAR (measured) = 2.82 W/kg

Configuration/GPRS1900(2Slot) Low Extremity Top/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

dx=8mm, dy=8mm, dz=5mm; Reference Value = 44.98 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 4.79 W/kg

SAR(1 g) = 2.8 W/kg; SAR(10 g) = 1.5 W/kg Maximum value of SAR (measured) = 3.19 W/kg

0 dB = 3.19 W/kg = 5.04 dBW/kg

Plot 21#

Test Date: 11/07/2020

DUT: Mobile Computer; Type: EDA61K-1
Procedure Name: WCDMA Band 2 Low Extremity Top

Communication System: WCDMA; Frequency: 1852.4 MHz

Medium parameters used: $f = 1852.4$ MHz; $\sigma = 1.38$ S/m; $\epsilon_r = 41.37$; $\rho = 1000$ kg/m³; Tissue Temp (celsius)-22.5°C; Phantom section: Flat Section

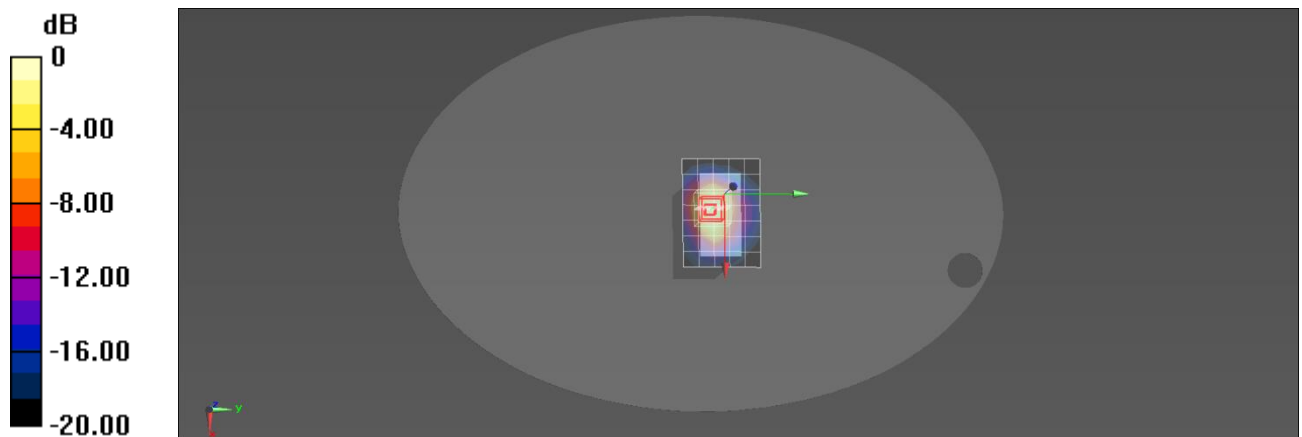
DASY5 Configuration:

- Probe: EX3DV4 - SN7524; ConvF(8.1, 8.1, 8.1) @ 1852.4 MHz; Calibrated: 5/20/2020
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1552; Calibrated: 5/6/2020
- Phantom: SAM2; Type: QD OVA 004 AA; Serial: 2089
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Configuration/WCDMA Band 2 Low Extremity Top/Area Scan (8x6x1): Measurement grid: dx=15mm, dy=15mm; Maximum value of SAR (measured) = 5.30 W/kg

Configuration/WCDMA Band 2 Low Extremity Top/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm; Reference Value = 59.94 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 9.63 W/kg

SAR(1 g) = 5.22 W/kg; SAR(10 g) = 2.68 W/kg Maximum value of SAR (measured) = 5.95 W/kg


0 dB = 5.95 W/kg = 7.75 dBW/kg

Plot 22#

Test Date: 11/05/2020

DUT: Mobile Computer; Type: EDA61K-1
Procedure Name: WCDMA Band 4 High Extremity Top

Communication System: WCDMA; Frequency: 1752.6 MHz

Medium parameters used: $f = 1752.6$ MHz; $\sigma = 1.33$ S/m; $\epsilon_r = 41.7$; $\rho = 1000$ kg/m³; Tissue Temp (celsius)-22.5°C; Phantom section: Flat Section

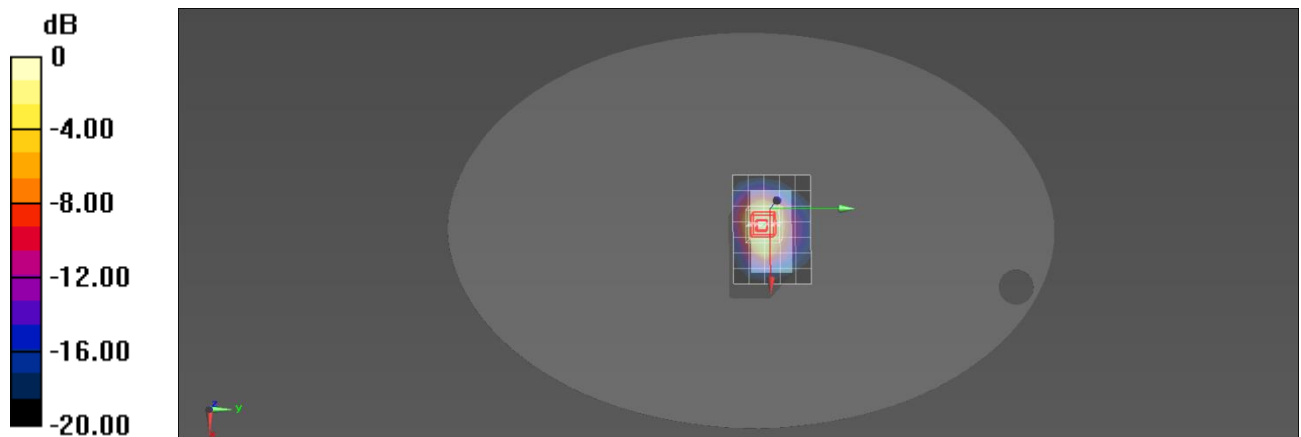
DASY5 Configuration:

- Probe: EX3DV4 - SN7524; ConvF(8.5, 8.5, 8.5) @ 1752.6 MHz; Calibrated: 5/20/2020
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1552; Calibrated: 5/6/2020
- Phantom: SAM2; Type: QD OVA 004 AA; Serial: 2089
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Configuration/WCDMA Band 4 High Extremity Top/Area Scan (8x6x1): Measurement grid: dx=15mm, dy=15mm; Maximum value of SAR (measured) = 5.66 W/kg

Configuration/WCDMA Band 4 High Extremity Top/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm; Reference Value = 57.22 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 9.45 W/kg

SAR(1 g) = 5.29 W/kg; SAR(10 g) = 2.79 W/kg Maximum value of SAR (measured) = 5.98 W/kg


0 dB = 5.98 W/kg = 7.77 dBW/kg

Plot 23#

Test Date: 11/06/2020

DUT: Mobile Computer; Type: EDA61K-1
Procedure Name: WCDMA Band 5 Low Extremity Front

Communication System: WCDMA; Frequency: 826.4 MHz

Medium parameters used: $f = 826.4$ MHz; $\sigma = 0.89$ S/m; $\epsilon_r = 43.43$; $\rho = 1000$ kg/m³; Tissue Temp (celsius)-22.5°C; Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7524; ConvF(10.04, 10.04, 10.04) @ 826.4 MHz; Calibrated: 5/20/2020
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1552; Calibrated: 5/6/2020
- Phantom: SAM2; Type: QD OVA 004 AA; Serial: 2089
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

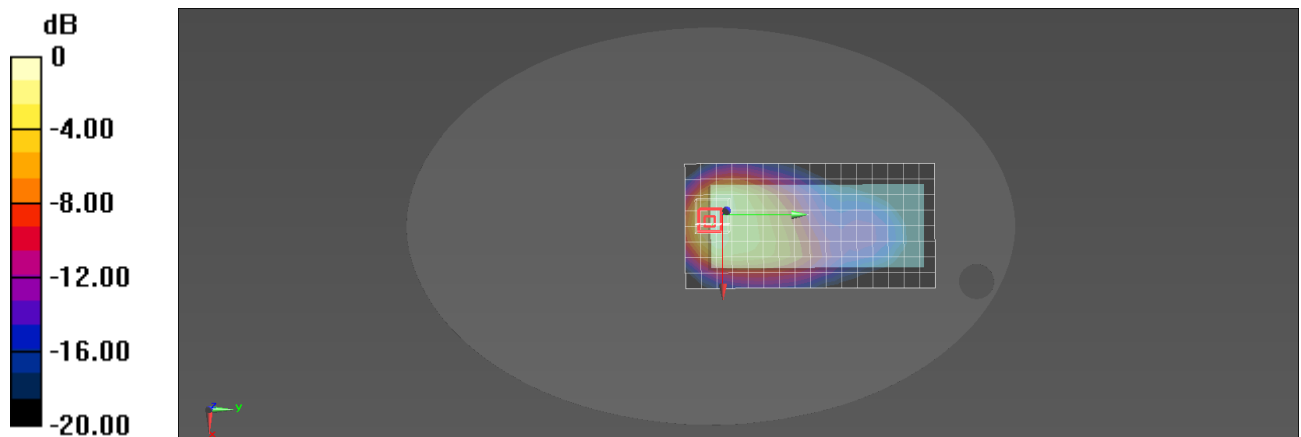
Configuration/WCDMA Band 5 Low Extremity Front/Area Scan (9x17x1): Measurement grid:

dx=15mm, dy=15mm Maximum value of SAR (measured) = 1.02 W/kg

Configuration/WCDMA Band 5 Low Extremity Front/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

dx=8mm, dy=8mm, dz=5mm; Reference Value = 42.19 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 1.88 W/kg

SAR(1 g) = 1.07 W/kg; SAR(10 g) = 0.607 W/kg Maximum value of SAR (measured) = 1.19 W/kg


0 dB = 1.19 W/kg = 0.76 dBW/kg

Plot 24#

Test Date: 11/13/2020

DUT: Mobile Computer; Type: EDA61K-1
Procedure Name: CDMA BC0 SO32_RC3 Low Extremity Front

Communication System: CDMA; Frequency: 824.7 MHz

Medium parameters used: $f = 824.7$ MHz; $\sigma = 0.88$ S/m; $\epsilon_r = 42.61$; $\rho = 1000$ kg/m³; Tissue Temp (celsius)-22.5°C; Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7524; ConvF(10.04, 10.04, 10.04) @ 824.7 MHz; Calibrated: 5/20/2020
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1552; Calibrated: 5/6/2020
- Phantom: SAM2; Type: QD OVA 004 AA; Serial: 2089
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

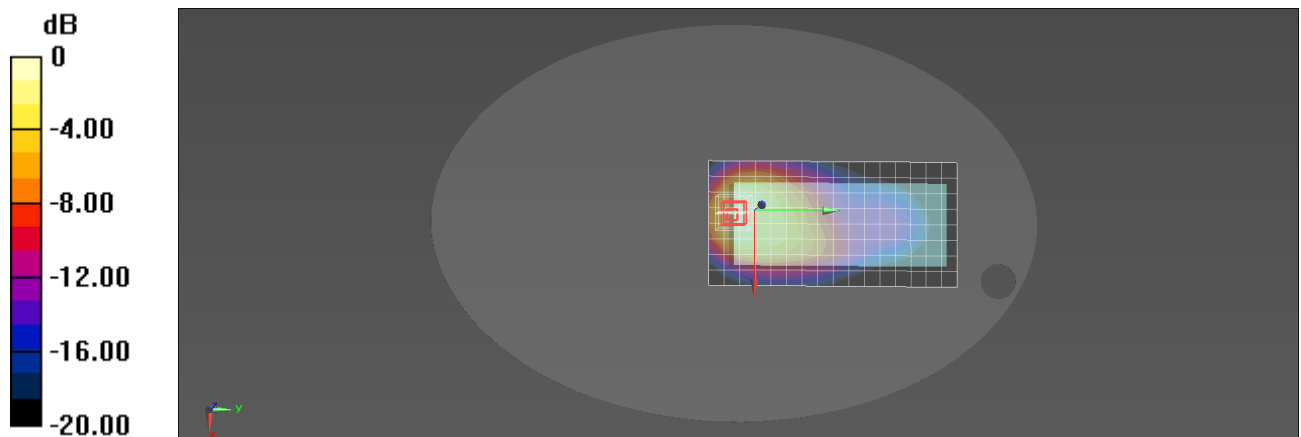
Configuration/CDMA BC0 SO32_RC3 Low Extremity Front/Area Scan (9x17x1): Measurement grid:

dx=15mm, dy=15mm; Maximum value of SAR (measured) = 0.907 W/kg

Configuration/CDMA BC0 SO32_RC3 Low Extremity Front/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=8mm, dy=8mm, dz=5mm; Reference Value = 41.67 V/m; Power Drift = -0.00 dB

Peak SAR (extrapolated) = 1.75 W/kg

SAR(1 g) = 0.996 W/kg; SAR(10 g) = 0.576 W/kg Maximum value of SAR (measured) = 1.12 W/kg


0 dB = 1.12 W/kg = 0.49 dBW/kg

Plot 25#

Test Date: 11/07/2020

DUT: Mobile Computer; Type: EDA61K-1
Procedure Name: CDMA BC1 SO32_RC3 Mid Extremity Top

Communication System: CDMA; Frequency: 1880 MHz

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.4$ S/m; $\epsilon_r = 41.34$; $\rho = 1000$ kg/m³; Tissue Temp (celsius)-22.5°C; Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7524; ConvF(8.1, 8.1, 8.1) @ 1880 MHz; Calibrated: 5/20/2020
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1552; Calibrated: 5/6/2020
- Phantom: SAM2; Type: QD OVA 004 AA; Serial: 2089
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

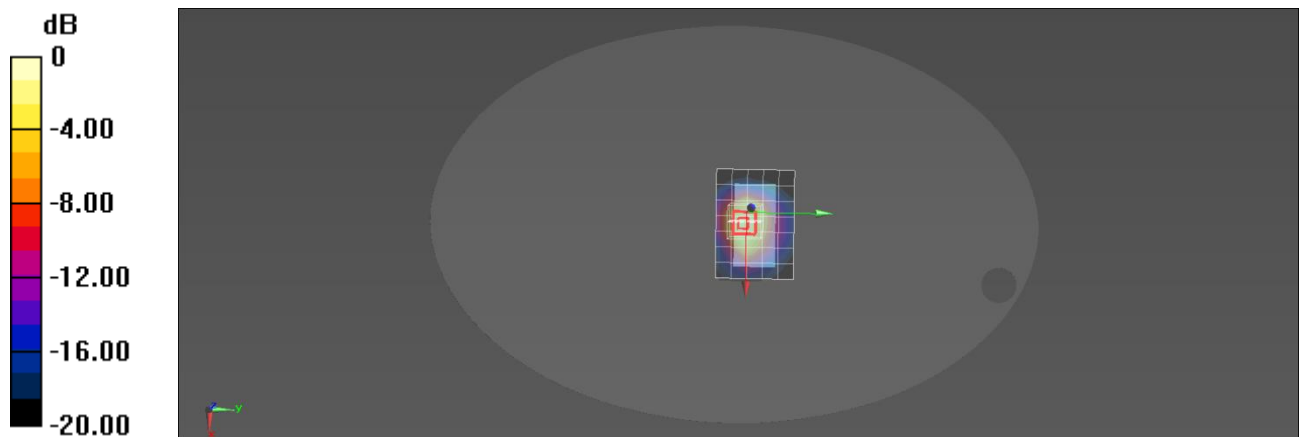
Configuration/CDMA BC1 SO32_RC3 Mid Extremity Top/Area Scan (8x6x1): Measurement grid:

dx=15mm, dy=15mm; Maximum value of SAR (measured) = 4.22 W/kg

Configuration/CDMA BC1 SO32_RC3 Mid Extremity Top/Zoom Scan (5x5x7)/Cube 0: Measurement

grid: dx=8mm, dy=8mm, dz=5mm; Reference Value = 56.43 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 8.48 W/kg

SAR(1 g) = 4.56 W/kg; SAR(10 g) = 2.32 W/kg Maximum value of SAR (measured) = 5.19 W/kg


0 dB = 5.19 W/kg = 7.15 dBW/kg

Plot 26#

Test Date: 11/05/2020

DUT: Mobile Computer; Type: EDA61K-1
Procedure Name: LTE Band 4 High QPSK_20M_1RB_OS99 Extremity Top

Communication System: LTE; Frequency: 1745 MHz

Medium parameters used: $f = 1745$ MHz; $\sigma = 1.33$ S/m; $\epsilon_r = 41.71$; $\rho = 1000$ kg/m³; Tissue Temp (celsius)-22.5°C; Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7524; ConvF(8.5, 8.5, 8.5) @ 1745 MHz; Calibrated: 5/20/2020
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1552; Calibrated: 5/6/2020
- Phantom: SAM2; Type: QD OVA 004 AA; Serial: 2089
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

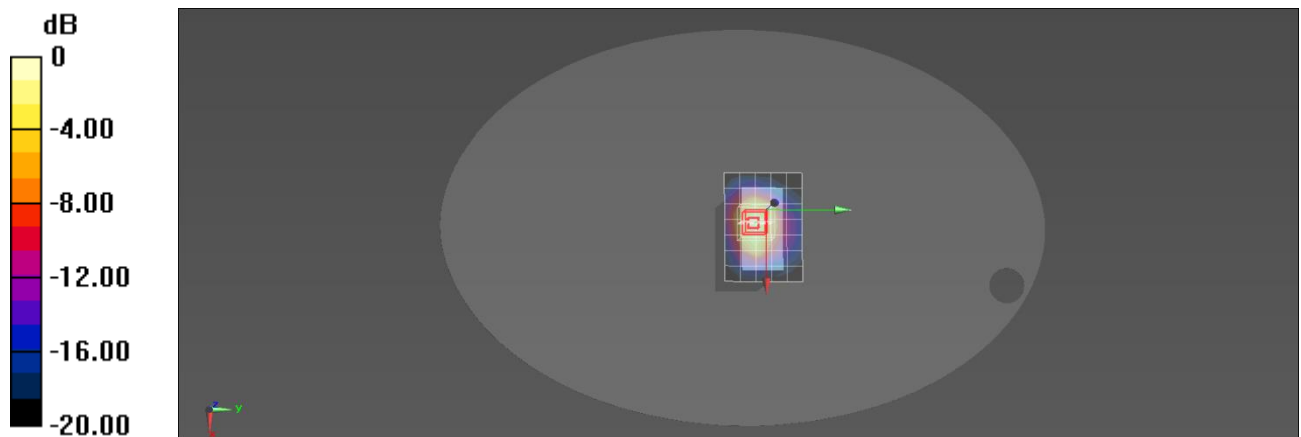
Configuration/LTE Band 4 High QPSK_20M_1RB_OS99 Extremity Top/Area Scan (8x6x1):

Measurement grid: dx=15mm, dy=15mm; Maximum value of SAR (measured) = 5.14 W/kg

Configuration/LTE Band 4 High QPSK_20M_1RB_OS99 Extremity Top/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=8mm, dy=8mm, dz=5mm; Reference Value = 55.46 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 8.78 W/kg

SAR(1 g) = 4.98 W/kg; SAR(10 g) = 2.67 W/kg Maximum value of SAR (measured) = 5.60 W/kg


0 dB = 5.60 W/kg = 7.48 dBW/kg

Plot 27#

Test Date: 11/13/2020

DUT: Mobile Computer; Type: EDA61K-1
Procedure Name: LTE Band 5 Low QPSK_10M_1RB_OS49 Extremity Front

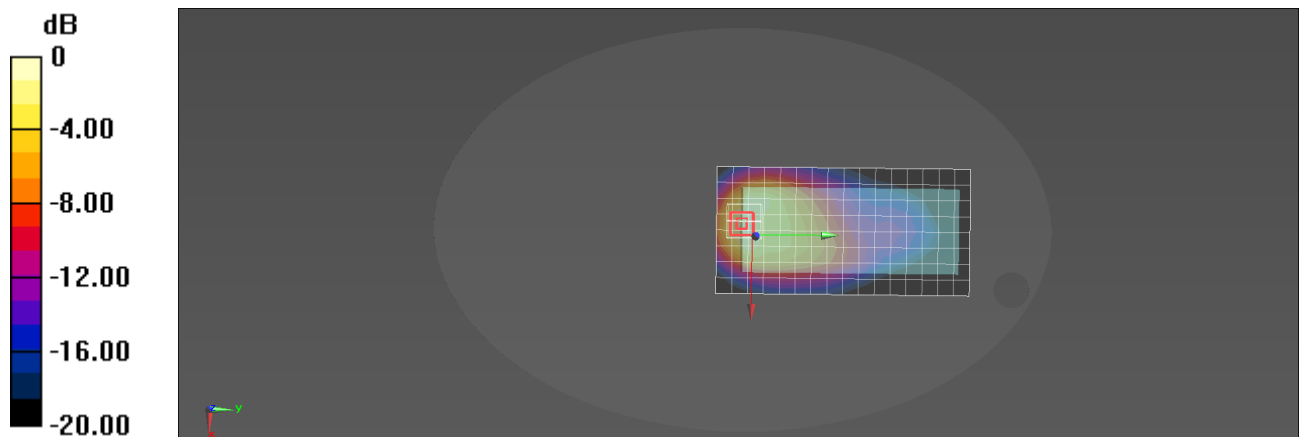
Communication System: LTE; Frequency: 829 MHz

Medium parameters used: $f = 829 \text{ MHz}$; $\sigma = 0.88 \text{ S/m}$; $\epsilon_r = 42.59$; $\rho = 1000 \text{ kg/m}^3$; Tissue Temp (celsius)- 22.5°C ; Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7524; ConvF(10.04, 10.04, 10.04) @ 829 MHz; Calibrated: 5/20/2020
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1552; Calibrated: 5/6/2020
- Phantom: SAM2; Type: QD OVA 004 AA; Serial: 2089
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Configuration/LTE Band 5 Low QPSK_10M_1RB_OS49 Extremity Front/Area Scan (9x17x1):

Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$; Maximum value of SAR (measured) = 0.939 W/kg
Configuration/LTE Band 5 Low QPSK_10M_1RB_OS49 Extremity Front/Zoom Scan (5x5x7)/Cube
0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$; Reference Value = 40.45 V/m ; Power Drift = 0.00 dB
Peak SAR (extrapolated) = 1.73 W/kg
SAR(1 g) = 0.978 W/kg ; SAR(10 g) = 0.558 W/kg Maximum value of SAR (measured) = 1.09 W/kg

 $0 \text{ dB} = 1.09 \text{ W/kg} = 0.37 \text{ dBW/kg}$

Plot 28#

Test Date: 11/11/2020

DUT: Mobile Computer; Type: EDA61K-1
Procedure Name: LTE Band 7 High QPSK_20M_1RB_OS49 Extremity Top

Communication System: LTE; Frequency: 2560 MHz

Medium parameters used: $f = 2560$ MHz; $\sigma = 1.86$ S/m; $\epsilon_r = 39.06$; $\rho = 1000$ kg/m³; Tissue Temp (celsius)-22.5°C; Phantom section: Flat Section

DASY5 Configuration:

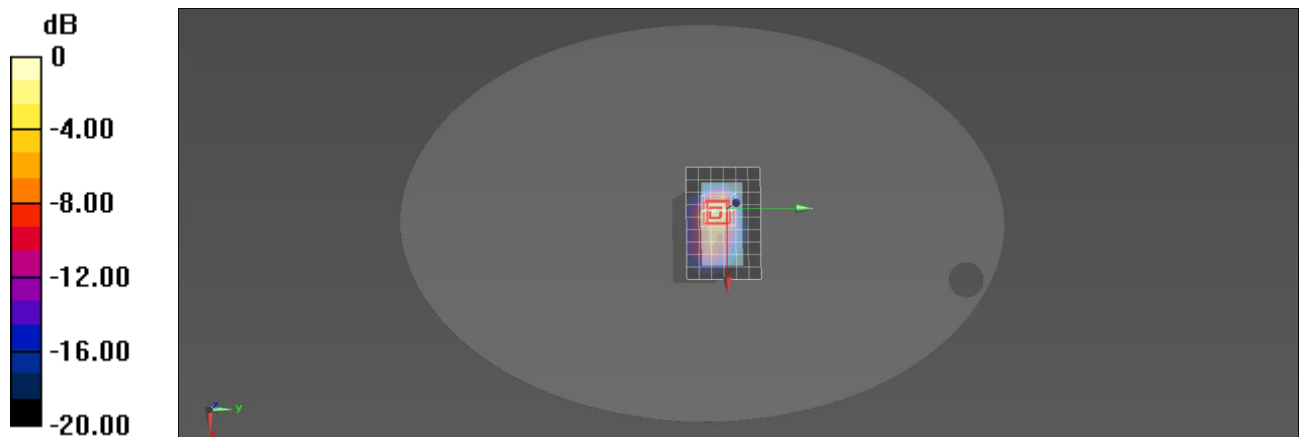
- Probe: EX3DV4 - SN7524; ConvF(7.41, 7.41, 7.41) @ 2560 MHz; Calibrated: 5/20/2020
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1552; Calibrated: 5/6/2020
- Phantom: SAM2; Type: QD OVA 004 AA; Serial: 2089
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Configuration/LTE Band 7 High QPSK_20M_1RB_OS49 Extremity Top/Area Scan (10x7x1):

Measurement grid: dx=12mm, dy=12mm; Maximum value of SAR (measured) = 5.92 W/kg

Configuration/LTE Band 7 High QPSK_20M_1RB_OS49 Extremity Top/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm; Reference Value = 39.99 V/m; Power Drift = 0.15 dB
Peak SAR (extrapolated) = 14.2 W/kg

SAR(1 g) = 6.11 W/kg; SAR(10 g) = 2.45 W/kg Maximum value of SAR (measured) = 7.42 W/kg


0 dB = 7.42 W/kg = 8.70 dBW/kg

Plot 29#

Test Date: 11/14/2020

DUT: Mobile Computer; Type: EDA61K-1
Procedure Name: LTE Band 12 Low QPSK_10M_1RB_OS24 Extremity Front

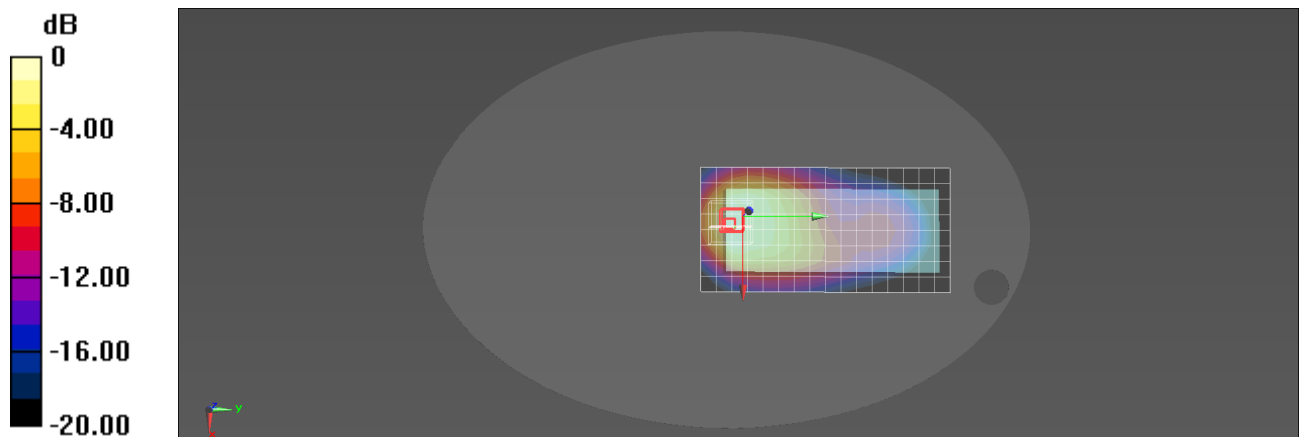
Communication System: LTE; Frequency: 704 MHz

Medium parameters used: $f = 704 \text{ MHz}$; $\sigma = 0.86 \text{ S/m}$; $\epsilon_r = 44.02$; $\rho = 1000 \text{ kg/m}^3$; Tissue Temp (celsius)- 22.5°C ; Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7524; ConvF(10.41, 10.41, 10.41) @ 704 MHz; Calibrated: 5/20/2020
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1552; Calibrated: 5/6/2020
- Phantom: SAM2; Type: QD OVA 004 AA; Serial: 2089
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Configuration/LTE Band 12 Low QPSK_10M_1RB_OS24 Extremity Front/Area Scan (9x17x1):

Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$; Maximum value of SAR (measured) = 1.06 W/kg
Configuration/LTE Band 12 Low QPSK_10M_1RB_OS24 Extremity Front/Zoom Scan (6x6x7)/Cube
0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$; Reference Value = 40.44 V/m ; Power Drift = -0.05 dB
Peak SAR (extrapolated) = 1.75 W/kg
SAR(1 g) = 0.965 W/kg ; SAR(10 g) = 0.566 W/kg Maximum value of SAR (measured) = 1.01 W/kg

 $0 \text{ dB} = 1.01 \text{ W/kg} = 0.04 \text{ dBW/kg}$

Plot 30#

Test Date: 11/14/2020

DUT: Mobile Computer; Type: EDA61K-1
Procedure Name: LTE Band 13 Mid QPSK_10M_1RB_OS49 Extremity Front

Communication System: LTE; Frequency: 782 MHz

Medium parameters used: $f = 782 \text{ MHz}$; $\sigma = 0.88 \text{ S/m}$; $\epsilon_r = 43.74$; $\rho = 1000 \text{ kg/m}^3$; Tissue Temp (celsius)-
22.5°C; Phantom section: Flat Section

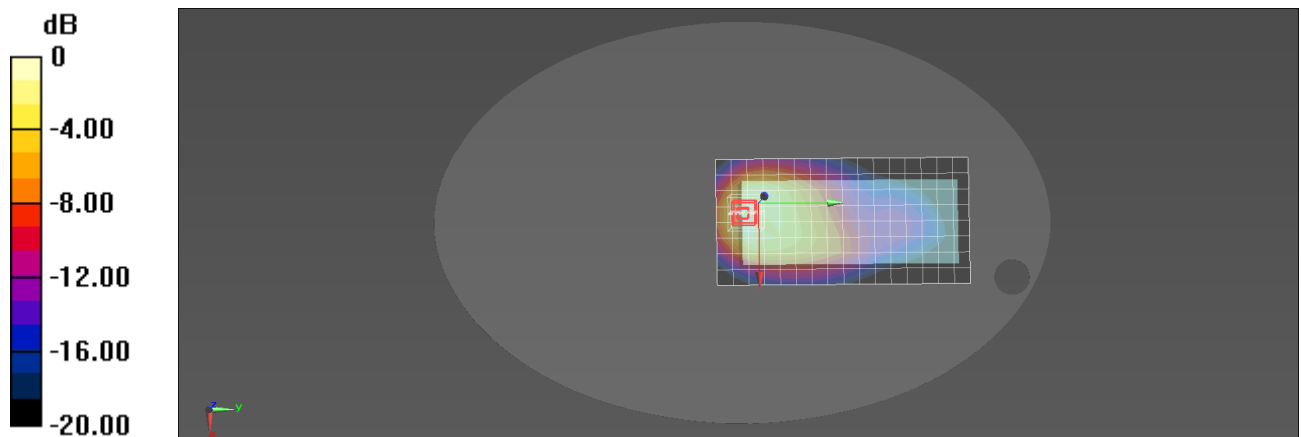
DASY5 Configuration:

- Probe: EX3DV4 - SN7524; ConvF(10.41, 10.41, 10.41) @ 782 MHz; Calibrated: 5/20/2020
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1552; Calibrated: 5/6/2020
- Phantom: SAM2; Type: QD OVA 004 AA; Serial: 2089
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Configuration/LTE Band 13 Mid QPSK_10M_1RB_OS49 Extremity Front/Area Scan (9x17x1):

Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$; Maximum value of SAR (measured) = 1.13 W/kg

Configuration/LTE Band 13 Mid QPSK_10M_1RB_OS49 Extremity Front/Zoom Scan (5x5x7)/Cube
0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$; Reference Value = 42.11 V/m; Power Drift = 0.19 dB
Peak SAR (extrapolated) = 1.97 W/kg

SAR(1 g) = 1.11 W/kg; SAR(10 g) = 0.640 W/kg Maximum value of SAR (measured) = 1.23 W/kg


0 dB = 1.23 W/kg = 0.90 dBW/kg

Plot 31#

Test Date: 11/09/2020

DUT: Mobile Computer; Type: EDA61K-1
Procedure Name: LTE Band 25 Low QPSK_20M_1RB_OS0 Extremity Top

Communication System: LTE; Frequency: 1860 MHz

Medium parameters used: $f = 1860$ MHz; $\sigma = 1.38$ S/m; $\epsilon_r = 41.06$; $\rho = 1000$ kg/m³; Tissue Temp (celsius)-22.5°C; Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7524; ConvF(8.1, 8.1, 8.1) @ 1860 MHz; Calibrated: 5/20/2020
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1552; Calibrated: 5/6/2020
- Phantom: SAM2; Type: QD OVA 004 AA; Serial: 2089
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

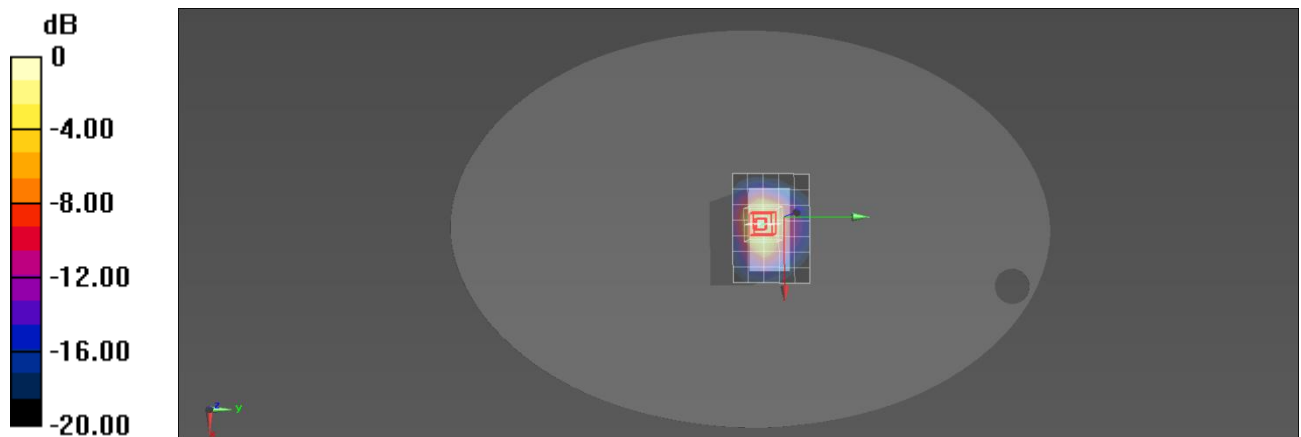
Configuration/LTE Band 25 Low QPSK_20M_1RB_OS0 Extremity Top/Area Scan (8x6x1):

Measurement grid: dx=15mm, dy=15mm; Maximum value of SAR (measured) = 5.29 W/kg

Configuration/LTE Band 25 Low QPSK_20M_1RB_OS0 Extremity Top/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=8mm, dy=8mm, dz=5mm; Reference Value = 55.76 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 9.10 W/kg

SAR(1 g) = 4.99 W/kg; SAR(10 g) = 2.58 W/kg Maximum value of SAR (measured) = 5.69 W/kg


0 dB = 5.69 W/kg = 7.55 dBW/kg

Plot 32#

Test Date: 11/10/2020

DUT: Mobile Computer; Type: EDA61K-1
Procedure Name: LTE Band 41 Low-Mid QPSK_20M_1RB_OS49 Extremity Top

Communication System: LTE; Frequency: 2549.5 MHz

Medium parameters used: $f = 2550$ MHz; $\sigma = 1.86$ S/m; $\epsilon_r = 40.92$; $\rho = 1000$ kg/m³; Tissue Temp (celsius)-22.5°C; Phantom section: Flat Section

DASY5 Configuration:

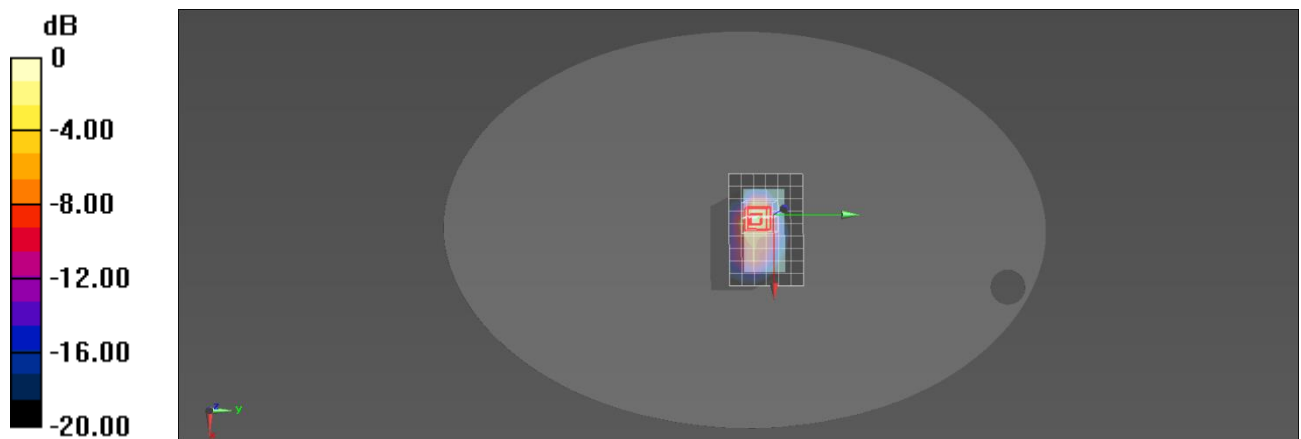
- Probe: EX3DV4 - SN7524; ConvF(7.6, 7.6, 7.6) @ 2549.5 MHz; Calibrated: 5/20/2020
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1552; Calibrated: 5/6/2020
- Phantom: SAM2; Type: QD OVA 004 AA; Serial: 2089
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Configuration/LTE Band 41 Low-Mid QPSK_20M_1RB_OS49 Extremity Top/Area Scan (10x7x1):

Measurement grid: dx=12mm, dy=12mm; Maximum value of SAR (measured) = 2.35 W/kg

Configuration/LTE Band 41 Low-Mid QPSK_20M_1RB_OS49 Extremity Top/Zoom Scan
(7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm; Reference Value = 26.81 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 5.24 W/kg

SAR(1 g) = 2.33 W/kg; SAR(10 g) = 0.942 W/kg Maximum value of SAR (measured) = 2.74 W/kg


0 dB = 2.74 W/kg = 4.38 dBW/kg

Plot 33#

Test Date: 11/16/2020

DUT: Mobile Computer; Type: EDA61K-1
Procedure Name: 802.11b 2412MHz Extremity Left

Communication System: 802.11b; Frequency: 2412 MHz; Duty Cycle: 1:1

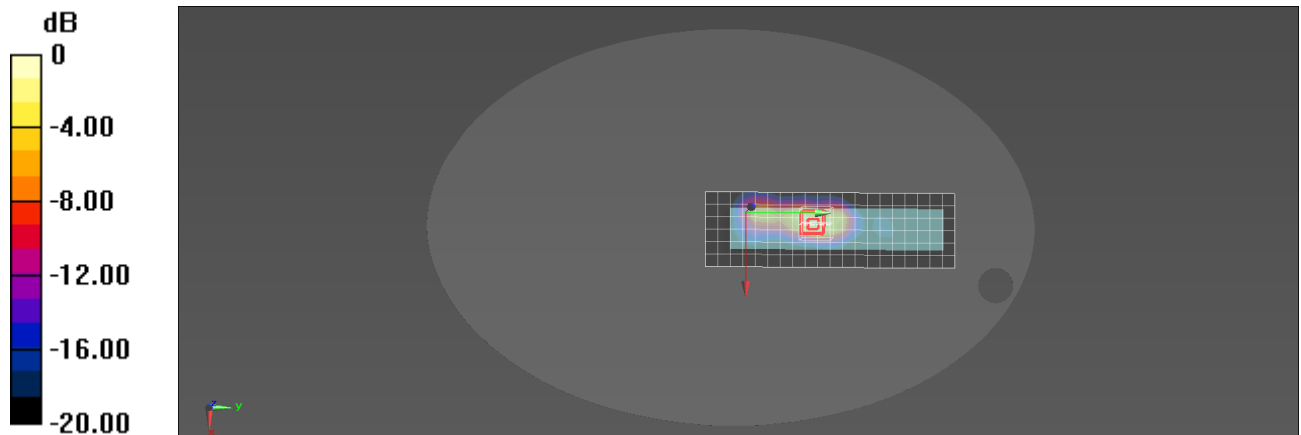
Medium parameters used: $f = 2412$ MHz; $\sigma = 1.75$ S/m; $\epsilon_r = 39.42$; $\rho = 1000$ kg/m³; Tissue Temp (celsius)-22.5°C; Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7524; ConvF(7.6, 7.6, 7.6) @ 2412 MHz; Calibrated: 5/20/2020
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1552; Calibrated: 5/6/2020
- Phantom: SAM2; Type: QD OVA 004 AA; Serial: 2089
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Configuration/802.11b 2412MHz Extremity Left/Area Scan (7x21x1): Measurement grid: dx=12mm, dy=12mm Maximum value of SAR (measured) = 0.978 W/kg

Configuration/802.11b 2412MHz Extremity Left/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm; Reference Value = 3.949 V/m; Power Drift = -0.17 dB
Peak SAR (extrapolated) = 2.88 W/kg

SAR(1 g) = 1.19 W/kg; SAR(10 g) = 0.482 W/kg Maximum value of SAR (measured) = 1.39 W/kg


0 dB = 1.39 W/kg = 1.43 dBW/kg

Plot 34#

Test Date: 11/16/2020

DUT: Mobile Computer; Type: EDA61K-1**Procedure Name: 802.11a 5260MHz Extremity Left-Back**

Communication System: 802.11a; Frequency: 5260 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5260$ MHz; $\sigma = 4.51$ S/m; $\epsilon_r = 35.09$; $\rho = 1000$ kg/m³; Tissue Temp (celsius)-22.5°C; Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7524; ConvF(5.15, 5.15, 5.15) @ 5260 MHz; Calibrated: 5/20/2020
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1552; Calibrated: 5/6/2020
- Phantom: SAM2; Type: QD OVA 004 AA; Serial: 2089
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

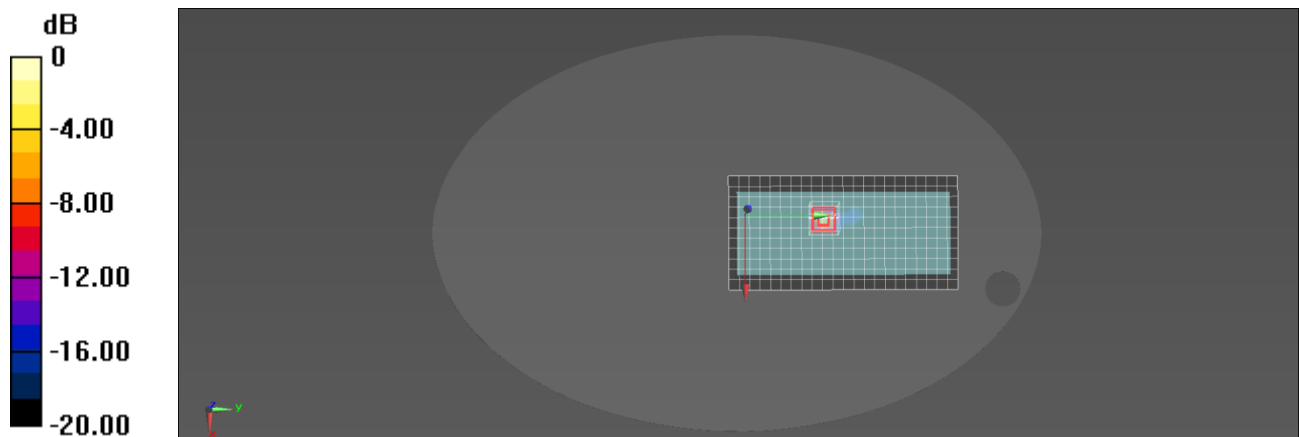
Configuration/802.11a 5260MHz Extremity Left-Back/Area Scan (12x23x1): Measurement grid:

dx=10mm, dy=10mm; Maximum value of SAR (measured) = 5.42 W/kg

Configuration/802.11a 5260MHz Extremity Left-Back/Zoom Scan (8x8x7)/Cube 0: Measurement grid:

dx=4mm, dy=4mm, dz=2mm; Reference Value = 0.7660 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 14.9 W/kg

SAR(1 g) = 2.93 W/kg; SAR(10 g) = 0.602 W/kg Maximum value of SAR (measured) = 6.37 W/kg

0 dB = 6.37 W/kg = 8.04 dBW/kg

Plot 35#

Test Date: 11/17/2020

DUT: Mobile Computer; Type: EDA61K-1
Procedure Name: 802.11a 5720MHz Extremity Left-Back

Communication System: 802.11a; Frequency: 5720 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5720$ MHz; $\sigma = 5.03$ S/m; $\epsilon_r = 34.27$; $\rho = 1000$ kg/m³; Tissue Temp (celsius)-22.5°C; Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7524; ConvF(4.84, 4.84, 4.84) @ 5720 MHz; Calibrated: 5/20/2020
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1552; Calibrated: 5/6/2020
- Phantom: SAM2; Type: QD OVA 004 AA; Serial: 2089
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

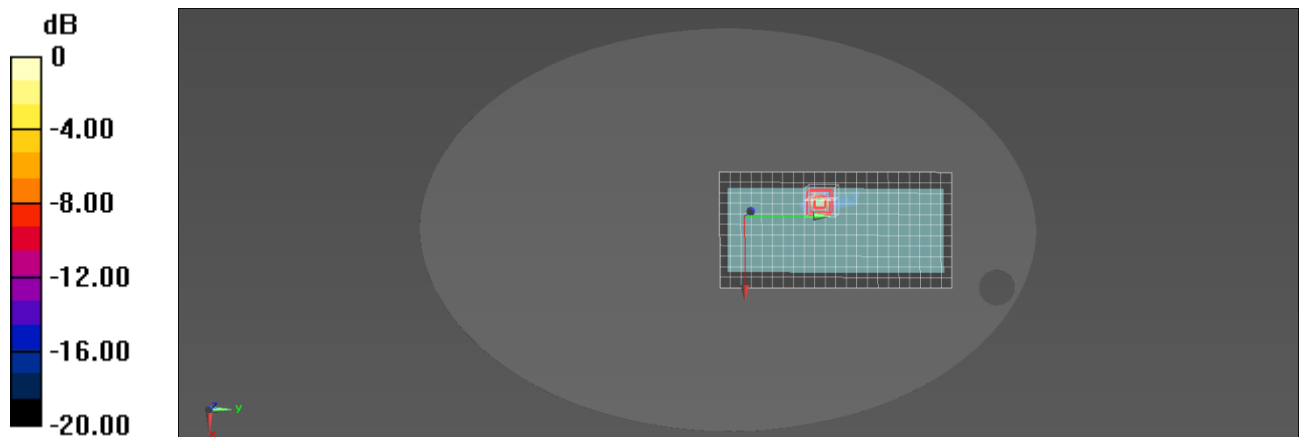
Configuration/802.11a 5720MHz Extremity Left-Back/Area Scan (12x23x1): Measurement grid:

dx=10mm, dy=10mm; Maximum value of SAR (measured) = 6.92 W/kg

Configuration/802.11a 5720MHz Extremity Left-Back/Zoom Scan (8x8x7)/Cube 0: Measurement grid:

dx=4mm, dy=4mm, dz=2mm; Reference Value = 0.6320 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 27.2 W/kg

SAR(1 g) = 4.61 W/kg; SAR(10 g) = 0.921 W/kg Maximum value of SAR (measured) = 10.6 W/kg


0 dB = 10.6 W/kg = 10.25 dBW/kg

Plot 36#

Test Date: 11/17/2020

DUT: Mobile Computer; Type: EDA61K-1**Procedure Name: 802.11a 5745MHz Extremity Left-Back**

Communication System: 802.11a; Frequency: 5745 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5745$ MHz; $\sigma = 5.06$ S/m; $\epsilon_r = 34.22$; $\rho = 1000$ kg/m³; Tissue Temp (celsius)-22.5°C; Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7524; ConvF(4.84, 4.84, 4.84) @ 5745 MHz; Calibrated: 5/20/2020
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1552; Calibrated: 5/6/2020
- Phantom: SAM2; Type: QD OVA 004 AA; Serial: 2089
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

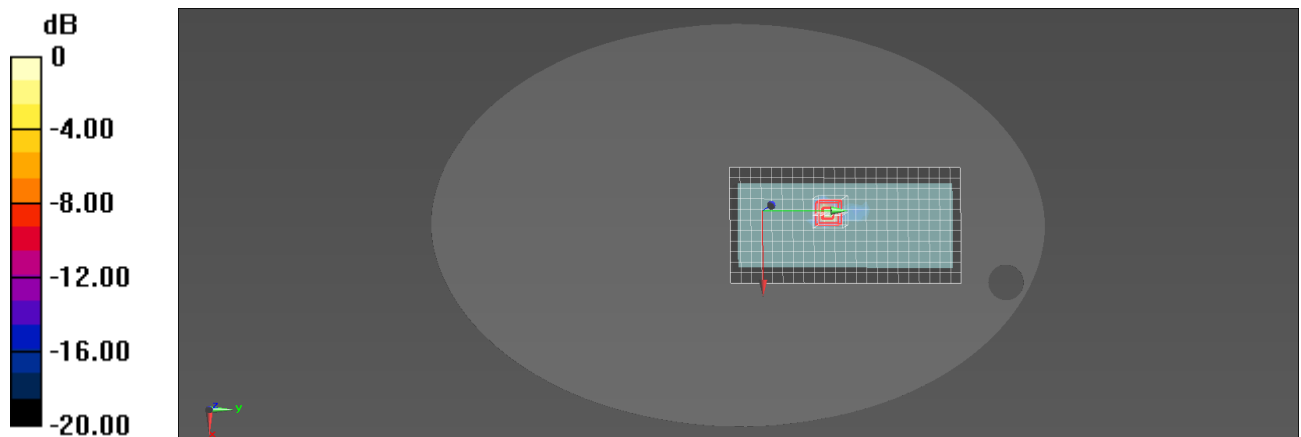
Configuration/802.11a 5745MHz Extremity Left-Back/Area Scan (12x23x1): Measurement grid:

dx=10mm, dy=10mm; Maximum value of SAR (measured) = 6.28 W/kg

Configuration/802.11a 5745MHz Extremity Left-Back/Zoom Scan (8x8x7)/Cube 0: Measurement grid:

dx=4mm, dy=4mm, dz=2mm; Reference Value = 1.052 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 25.0 W/kg

SAR(1 g) = 4.29 W/kg; SAR(10 g) = 0.867 W/kg Maximum value of SAR (measured) = 9.27 W/kg

0 dB = 9.27 W/kg = 9.67 dBW/kg

Annex C - SAR Test Setup Photos

Please refer to document “2010RSU078-UT”.

Annex D - EUT External Photos

Please refer to document "2010RSU078-UE".

Annex E - Equipment Calibration Report

Please refer to document "Annex E - Equipment Calibration Report.pdf".

The End
